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Lescriptions of these varieties have been

Grape descriptions, America

Alice	Paint	Governor Ross.	Puice.
Alvey		Jaeger	President.
Amerbonte.		Judge Miller.	Puckwana ?
Arkansas	Paint	Kiowa.	Rigg's #16
Atoka.		Krause. Paint	Ronaldo.
August Giant.		Lightfoot.	Roger's 5, 13, 32, 33.
^{Bacchus} Blondin		Linn. ② Paint	Ruby. ②
Big Hope		Livingston.	Shanman
Bride	Paint	Lindman	Studley #2.
Brilliant Seedling		Little Blue.	Suelter
Champanel.		Long John.	St. John.
Chicago.		Loretto.	Tonkawa. Paint
Christine	(Bach. Paint 30%)	Luse	Valhalla.
Collier		Mary Favorite ②	Waddel.
Downing.		Marguerite Paint	Wilding
Dr. Hylie	Paint	Merrimac	Whitel. #2, #15
Elvibach.	Paint	Mericadel	" #4, #42, #16, #61
Ellen Scott.		Munch.	Early Concord
Emerald		Mrs. Munson	Clinton Paint
Eumedel.		Olita.	Kline
Franklin.		Palmyra	Bacchus. Paint
Gold Dust		Peabody. Paint	
Golden Grain.		Paragon	

ALICE

(Labrusca, Aestivalis Vinifera?)

ORIGIN: A seedling found by Ward D. Gunn, Clintondale, Ulster County, New York, 1884.

VINE: Vigorous, bushy, robust, climbing, open, good producer, root soft, fleshy, strong, thick, long spreading penetrating, stump strong, trunk strong slender.

YOUNG WOOD: Canes slender round, texture medium, bark smooth, dark brown striped, nodes darker, pubescence long supple; internodes long thin, nodes enlarged; pith large discontinuous at medium size concave diaphragm; lenticels small round, tendrils intermittent forked, similar in color to cane, buds small prominent, pointed start early; growing tips light reddish hairy.

LEAF: Petiole length $2\frac{1}{2}$ in. slender, hairy, lying flat, vinous red striped; base enlarged drops with blade; blade length 6 in. breadth $5\frac{1}{2}$ in. thick parchment like, broadly cordate; folded evenly, depressed along midrib, 3 pointed, 3 cleft, slightly 3 lobed; petiolar sinus deep narrow, terminal lobe rounded, margin dentate midrib $4\frac{1}{4}$ in. long, depressed light straight transparent, light greenish, pubescence white, abundant loose fluffy in tufts at forks. Primary veins similar to midrib. Upper surface finely rugose, wrinkled between veins, dull dark green, abundant white pubescence; lower surface rugose, lighter, abundant white floccose pubescence. Flowers abundant medium size perfect, open early.

CLUSTER: Peduncle length 1 in. slender wiry light brown, comb $2\frac{1}{2}$ x 5 in. wt. $\frac{1}{4}$ lb. 50 berries, single compact, nearly cylindrical, irregular taper, slight single shoulder; pedicel length $\frac{1}{4}$ in. green, medium size warty, distal end large without constriction, brush long bundles few, greenish, compact, adhere to pedicel.

BERRY: $\frac{1}{2}$ x $\frac{1}{2}$ in. globose, adherence good; basal markings medium size russet ring, apex markings small protruding dot. Skin tough thick smooth, transparent dull light red uniform at base, flesh pearly, pulpy soft juicy parting freely. Juice white, very good quality, foxy flavor, indistinct aroma; good keeping early table grape.

SEEDS: 2 - 3, length 6 m.m. breadth 4 m.m. pear-shaped stout parts readily from pulp, beak short, stout, blunt, defined, prominent small oval, raphe depressed ending abruptly in chalaza.

Grown at Chico Experiment Vineyard, Chico, California. Pruned to canes and spurs, trained to stakes. B.1 R 1, V 27-28.

Described by

F. L. Husmann & E. Snyder. 1916

ALVEY

(Aest. Vin.)

- ORIGINATED BY: Dr. Harvey, Hagerstown, Md.
PARENTAGE: Unknown.
VINE: Weak, upright, slender, open, trunk slender, productiveness uncertain.
YOUNG WOOD: Canes slender round, occasionally flattened, texture hard; dark red brown, striped, spotted; internodes short, thick; nodes normal; pith medium small, discontinuous at thin concave diaphragm; tendrils intermittent forked; buds medium prominent, round pointed, start midseason; growing tip light yellowish green, rusty, tomentum.
LEAF: Petiole 3 in. long, medium slender smooth, glabrous curved lignous, light yellowish green red striped; blade $5\frac{1}{2}$ in. long, $5\frac{1}{2}$ in. broad; thin flexible parchment like, nearly peltate, 5 lobed; petiolar sinus medium to deep, narrow, closed to overlapped; terminal lobe acute to obtuse; margin serulate to crenate; midrib $3\frac{1}{2}$ inches long, light straight depressed, dark yellowish green, scant white loose pubescence. Upper surface finely rugose, wrinkled, convex, dark dull yellowish green; lower surface rugose, light yellowish, scant white floccose pubescence.
FLOWERS: Abundant, open, medium early, stamens reflex.
CLUSTER: Peduncle 1 inch long, slender, wiry dark brown, comb single $3 \times \frac{3}{4}$ in.; 35 berries, medium to loose, irregularly conical, irregular gradual taper, slight single shoulder; pedicel length 3 m.m. slender, warty, reddish, distal end medium large, constricted, brush short, bundles many reddish, adhere to pedicel.
BERRY: $1\frac{1}{2} \times 1\frac{1}{2}$. globose, adhering, parts from pedicel splitting part of skin; basal markings irregular red ring; apex markings small indistinct protruding blotch; Skin thin, tender, smooth, pulpy, glossy dark purple black, uniform at base; flesh greenish pulpy, meaty, soft, juicy, parts freely from skin. Juice pinkish, very good quality sweet, vinous sprightly.
SEEDS: 1-3. length 7 m.m. breadth 4 m.m. pear-shaped, parts readily from pulp, beak defined short narrow; chalaza suborbicular small, slightly prominent; raphe depressed very rudimentary.

Grown at Varietal Collection Vineyard, Arlington, Farm, Va.
Pruned to canes, trained to Modified Munson System,

AMERBONTE

(Bourq. Linc. Rup.)

- ORIGINATED BY: T. V. Munson, Denison, Texas.
PARENTAGE: America X Herbemont.
VINE: Vigorous, upright, slender, climbing, open, trunk strong, slender.
YOUNG WOOD: Canes slender round, sometimes flattened, medium hard; bark thick, rough, dark red, heavy blue bloom; internodes thin, medium short, nodes normal, pith small discontinuous at thick concave diaphragm, tendrils intermittent forked; buds medium prominent flattened, round pointed, start early.
LEAF: Petiole 2 in. long, slender, smooth, glabrous, curved, dark yellowish green vinous red striped; blade $4\frac{1}{2}$ in. long, $4\frac{1}{2}$ in. broad, thin, flexible, parchment like, orbicular, 3 pointed 5 lobed; petiolar sinus medium shallow, narrow, closed to overlapping, terminal lobe acute to obtuse; margin $3\frac{1}{4}$ in. long, light prominent straight, pearly, scant loose white pubescence, downy at the forks. Upper surface finely rugose, convex, dull dark green; lower surface lighter, rugose, scant white floccose pubescence.
FLOWERS: Abundant, open midseason.
CLUSTER: Peduncle 1 in. long, slender, wiry, yellow green. Comb single 4 in. x 1 in. 70 berries, medium compact. irregularly conical, gradual irregular taper, slight single shoulder; pedicel length 3 m.m. slender, warty green, distal end constricted, medium size; brush very short, bundles few compact, reddish, adhere to pedicel.
BERRY: $1/2 \times 1/2$, globose, adhering parts from pedicel splitting part of skin, basal markings irregular green ring; apex markings small indistinct dot. Skin medium tough thin, pulpy, smooth, transparent, uniform dark reddish purple; flesh pearly, pulpy, parts freely meaty, soft juicy; pink juice, very good quality, sweet sprightly, ripens medium late.
SEEDS: 1-3 length 5 m.m. breadth 4 m.m. subspherical, parts readily from pulp, beak defined short, blunt, thick, chalaza subcircular depressed, rudimentary, raphe rudimentary, a thread-like cord ending abruptly.

Grown at Varietal Collection Vineyard, Arlington Farm, Va.
Pruned to canes, trained to Modified Munson System.

(Labrusca)
Well's Seedling?

- FROM: Joseph Hart, Fayetteville, Arkansas, 1893.
- VINE: Vigorous, bushy, robust, creeping, dense, good producer, roots soft, fleshy, strong thick long, spreading, penetrating moderately deep; stump vigorous, trunk strong slender.
- YOUNG WOOD: Canes slender round, medium texture, bark thin, smooth, light brown striped, nodes darker; internodes long thin, nodes enlarged flattened, pith small discontinuous at medium size concave diaphragm; lenticels medium size round; tendrils intermittent, forked, color similar to cane; buds small prominent, pointed, start early, growing tip dark reddish hairy.
- LEAF: Petiole length 3 in. stout, rough, hairy, flat, light red striped, base enlarged drops with blade; blade length $6\frac{1}{2}$ inches, breadth $5\frac{1}{2}$ inches thick coriaceous, narrowly peltate, folded evenly, depressed along midrib, 3 pointed, 3 cleft, 3 lobed; petiole sinus deep, narrow, terminal lobe acuminate, margin serrate, midrib 5 in. long, light straight transparent, light greenish, pubescence white, abundant loose, fluffy, in tufts at forks, primary veins similar to midrib. Upper surface smooth, finely wrinkled, depressed between veins, dull dark green scant white pubescence, lower surface, lighter rugose, abundant white floccose pubescence.
- FLOWERS: Abundant medium size perfect open early.
- CLUSTERS: Peduncle length $1\frac{1}{2}$ in. slender, wiry, light brown. Comb 2 x 5 in. Weight $1\frac{1}{4}$. 30 berries, single medium compact, nearly cylindrical, gradual taper, no shoulder, pedicel length $1\frac{1}{4}$ in. stout, warty, green, distal end medium without constriction, brush short, bundles many compact, greenish adhere to pedicel.
- BERRY: $5\frac{1}{8} \times 1\frac{1}{2}$, abovoid, ~~adherence~~ good, basal marking medium russet ring; apex markings small protruding dot. Skin tough, thick smooth transparent, dull pinkish red, uniform at base, flesh light pearly, pulpy juicy parting freely; juice white; good quality, foxy flavor, indistinct aroma; good keeping table grape. Seeds 2-3, length 7 m.m. breadth 4 m.m. pear-shaped, stout, part readily from pulp, beak defined short narrow, chalaza depressed small oval; raphe none.

Grown at Chico Varietal Vineyard, Chico, California.
Pruned to canes and spurs, trained to stakes. B.1 R.1, V.33-34.

Described by

F.L. Husmann & E. Snyder,
1916

AUGUST GIANT
(*Labrusca Vinifera*)

- ORIGINATED BY: N. B. White, Norwood, Mass. 1861
- PARENTAGE: A large red berried grape of *Labrusca* type, pollinated by Black Hamburg, with fruit characters decidedly of the later "Grapes of N.Y."
- VINE: Vigorous, upright, bushy, robust, dense, productive-ness good, root soft, fleshy, thick, long, moderately penetrating, stump strong, trunk strong slender.
- YOUNG WOOD: Canes slender, round, hard, bark thin, smooth short, supple pubescence, dark brown striped, nodes darker, internodes medium length thin, nodes enlarged, pith small discontinuous medium size diaphragm, tendrils intermittent forked; color similar to cane, buds medium size prominent pointed; start midseason, growing tips green, hairy
- LEAF: Petiole length 2 in. slender, smooth, hairy, curved, vinous red striped, base enlarged drops with blade, blade length $5\frac{1}{2}$ in. breadth $4\frac{1}{2}$ in. thin narrowly cordate, folded evenly, depressed along midrib, 5 pointed, 3 cleft, 5 lobed, petiolar sinus deep, narrow, terminal lobe acute, margin dentate, midrib $4\frac{1}{4}$ in. long, depressed, straight light, transparent, light greenish, abundant white pubescence, loose, patchy in tufts at forks, primary veins similar to midrib. Upper surface smooth finely wrinkled between veins, dark green ^{upper surface} with abundant white floccose pubescence.
- FLOWERS: Abundant large, perfect open midseason.
- CLUSTER: Peduncle length $1\frac{1}{2}$ in. stout woody dark brown comb 3 x 5 in. wt. $\frac{1}{4}$ lb. 45 berries, single medium compact, nearly conical, irregular taper, slight single shoulder pedicel length $\frac{1}{4}$ in. green slender warty distal end large without constriction. brush long, bundles few compact reddish, adhere to pedicel.
- BERRY: $5/8 \times 3/4$ in. oblong, adherence good, basal markings large regular russet ring; apex markings large protruding dot, skin thick smooth, dull translucent, purple black uniform at base, many prominent reddish dots, flesh greenish, pulpy firm, meaty juice reddish, very good quality foxy flavor indistinct aroma, very good quality midseason table grape.
- SEEDS: 4, length 9 m.m. breadth 4 m.m. elongated, stout part readily from pulp, beak defined short narrow chalaza prominent, raphe depressed merging into chalaza. Grown at Chico Varietal Vineyard, Chico, California.
- Pruned to canes and spurs, trained to stakes. B.1
R 11, V 31 and 32.

Described by F.L. Husmann & E. Snyder, 1916.

ATOKA
(Line. Fam. Four. L. C. 11)

- ORIGINATED BY: T. W. HUNTER, Denison, Texas, 1880
FERTILITY: America & Delaware.
VINE: Very vigorous, upright, robust, climbing, dense, trunk strong, stout, Very productive.
YOUNG WOOD: Canes stout, round to flattened, hard; bark thin rough, dark red brown, striped, spotted, nodes darker, blue bloom, internodes medium long, thick, nodes enlarged, flattened; with large, discontinuous at medium size concave diaphragm, many small black lenticles, tendrils continuous, forked, buds large, prominent, flattened, pointed.
LEAF: Petiole $1\frac{1}{2}$ inches long; medium slender, rough, hairy, lignous, light green, canine flush; base enlarged drops with blade, blade length 7 inches breadth 3 inches, broadly cordate, folded evenly, thin, flexible parchment like; 3 pointed, slightly 3 lobed, petiolar sinus medium in depth and breadth. Terminal lobe acuminate; margin dentate, midrib $5\frac{1}{2}$ inches long, even, heavy, straight, depressed; light yellowish, abundant, russet, minutely hairlike pubescence, compact. Upper surface rugose, coarsely wrinkled, convex between veins, light glossy green; lower surface lighter, smooth, glaucous;
FLOWERS: Abundant, open midseason, stamens upright.
CLUSTER: Peduncle $1\frac{1}{4}$ inch long, stout woody, dark brown; Comb single 2 x 6 inches; 95 berries, irregularly cylindrical, abrupt, irregular taper; slight single shoulder, pedicel length 3 m.m. medium stout warty reddish, distal end medium, constricted brush short, bundles few, loose greenish, close to pedicel.
BERRY: $1\frac{1}{2}$ x $1\frac{1}{2}$ inch. Globose, adhering, parts from pedicel, splitting part of skin; basal markings, small irregular red ring; apex markings small indistinct depressed blotch. Skin medium tough, thin, pulpy, smooth, translucent, very dark reddish purple, blue bloom, unbroken at base, flesh light green color, splitting freely, soft juicy, juice pink; quality very good, sweet slightly vinous, very acid until fully ripe; pronounced vinous when medium late.
SEEDS: 2-4, length 7 m.m. breadth 5 m.m. oblate, distended, parts readily from the pulp, both medium size narrow, pointed; oil large, prominent oval; radicle thread-like cord merging into the chalazae.

Grown at Varied Collection Vineyard, Arlington, Virginia. Trained to canes, trained on Modified Hunter System.

BACCHUS
(Riparia - Labrusca)

- ORIGINATED BY: J. H. Ricketts, Newburgh, N.Y.
- PARENTAGE: A seedling of Clinton, first exhibited in 1879
- VINE: Vigorous, robust, bushy, creeping dense, productiveness poor; root soft, fleshy, strong, thick, long, moderately penetrating, stump strong; trunk strong, slender,
- YOUNG WOOD: Canes slender round, hard, bark thin smooth, light brown striped, nodes darker, pubescence long supple; internodes long thin, nodes enlarged, pith medium size discontinuous at medium size concave diaphragm; lenticels small round, tendrils forked intermittent, color similar to cane; buds small prominent, pointed, start midseason, growing tip reddish hairy.
- LEAF: Petiole length $1\frac{3}{4}$ in. slender, smooth, hairy, curved, dark red striped; base enlarged drops with blade, blade length $4\frac{1}{2}$ in. breadth $3\frac{1}{2}$ in. thin parchment like, cordate, folded evenly, depressed along midrib, 3 pointed slightly 3 lobed; petiolar sinus medium, depth and width; terminal lobe acuminate; margin serrate, midrib $3\frac{1}{2}$ in. long, depressed straight, transparent light greenish, pubescence white loose, patchy in tufts at forks, primary veins similar to midrib; upper surface smooth, finely wrinkled between veins, dark green glossy, scant white pubescence. Lower surface rugose, lighter, scant white pubescence, minutely hirsute.
- FLOWERS: Abundant small perfect, bloom midseason.
- CLUSTER: Peduncle length $\frac{3}{4}$ in. slender, wiry dark red, comb $1\frac{1}{2} \times 4\frac{1}{2}$ in. wt. $\frac{1}{8}$ lb. 25 berries, single compact, cylindrical, taper gradual, slight single shoulder, pedicel length $\frac{1}{4}$ in. slender warty green; distal end medium without constriction; brush short, bundles few compact, reddish, adhere to pedicel.
- BERRY: $\frac{1}{4} \times \frac{1}{4}$ in. globose adherence good, basal markings small russet ring; apex markings, small protruding dot; skin tough, thin, smooth, translucent, dull purple black, uniform at base, flesh greenish pulpy, juicy soft, juice red, poor quality, foxy flavor, indistinct aroma, good keeping midseason wine grape.
- SEEDS: 3-4 length 7 m.m. breadth 3 m.m. elongated, stout, part readily from pulp; beak short, narrow, defined, chalaza prominent large oval; raphe depressed, merging into chalaza. Resistant to insects, diseases, frost.

Grown at Chico Varietal Vineyard, Chico,
California. Pruned to spurs, trained to stakes.

BIG HOPE

(Linc. Lab. Vin.)

- ORIGINATED BY: T. V. Munson, Dennison, Texas.
- PARENTAGE: Big Berry crossed with Triumph.
- VINE: Very vigorous, upright, slender, dense, good producer, roots soft, fleshy, thick, long, moderately penetrating, stump very vigorous, trunk slender strong.
- YOUNG WOOD: Canes slender, round, hard, bark thin smooth, dark red striped, nodes darker, long supple pubescence, internodes, short thin, nodes enlarged; pith small discontinuous at thin concave diaphragm, small round lenticels; tendrils intermittent forked, similar to cane in color; buds small prominent pointed, start midseason, growing tip light reddish hairy.
- LEAF: Petiole length $3\frac{1}{2}$ in. slender, smooth, hairy, flat, dark red, striped; base enlarged drops with blade, blade length $6\frac{1}{2}$ in. breadth $5\frac{1}{2}$ in. thick parchment like, ovate, 5 pointed, 5 cleft, 5 lobed, petiolar sinus deep broad, terminal lobe acute, margin serrate, midrib $4\frac{1}{4}$ in. long, light depressed straight, transparent, light red, pubescence abundant, rusty, loose, fluffy in tufts at forks; primary veins similar to midrib. Upper surface rugose, finely wrinkled between veins, dull dark green, abundant white pubescence; lower surface lighter, rugose, abundant rusty floccose pubescence.
- FLOWERS: Abundant medium size, perfect open midseason.
- CLUSTER: Peduncle length 2 in. slender wiry, dark red; Comb 6 x 2 in. wt. $\frac{1}{4}$ lb. berries 45, single loose, nearly cylindrical, irregular taper, no shoulder, pedicel length $\frac{1}{4}$ in. medium size warty, green; distal end large constricted; brush short, bundles many loose reddish adhere to pedicel.
- BERRY: $\frac{1}{2}$ x $\frac{1}{2}$ in. globose, adherence medium; basal markings medium regular russet pentagon, apex markings large protruding dot, skin tough, thin smooth translucent dull purple black, uniform at base; flesh greenish, pulpy, juicy, soft parting freely; juice pinkish; good quality, foxy flavor, indistinct aroma, very good keeping table grape.
- SEEDS: 4. Length 7 m.m. breadth 4 m.m. pear-shaped parts readily from pulp, beak short stout blunt, defined, chalaza prominent large oval, raphe depressed merging into chalaza.

Grown at Chico Varietal Vineyard, Chico, California.
Pruned to canes and spurs, trained to stakes. B.1 R1
V 35-36. Described by F.L. Husmann & E. Snyder, 1916.

BLONDIN

(Linc. Aest. Bour.)

- ORIGINATED BY: T. V. Munson, Denison, Texas, 1896.
PARENTAGE: Ten Dollar Prize. Norton, Herbenont.
VINE: Very vigorous, upright, climbing, open, trunk strong, productiveness good.
YOUNG WOOD: Canes stout, round, medium hard, bark thick smooth medium hard, dark brown short flocculent pubescence, internodes medium in length and thickness, nodes normal; pith medium small, discontinuous at thick concave diaphragm; tendrils intermittent, forked, long, large, buds medium size, prominent, flattened, pointed, start midseason, growing tip light greenish, flushed reddish, tomentose.
- LEAF: Petiole length $2\frac{1}{2}$ in. medium slender, smooth, tomentose, light yellowish; blade length $4\frac{1}{2}$ inches, breadth $4\frac{1}{2}$ inches, thin flexible, parchment like, orbicular, parchment like, folded evenly, 3 pointed, entire or slightly 3 lobed, petiolar sinus broad, shallow; terminal lobe, acuminate, midrib 4 in. long, light, straight even depressed, light yellowish green, abundant dense, russet pubescence. Upper surface rugose, coarsely wrinkled, uneven between veins, dull dark greenish; lower surface rugose, light yellowish, abundant russet floccose pubescence.
- FLOWERS: Abundant, open early, stamens upright.
CLUSTER: Peduncle 1 in. long, slender wiry, light yellow green. Comb single $3 \times 1\frac{1}{2}$ in. 45 berries, medium compact irregularly conical, irregular taper, single shoulder, pedicel $5/16$ in. long, slender, warty, yellow green; distal end medium small constricted, brush short, bundles many loose greenish, adhere to pedicel.
- BERRY: $5/8 \times 3/4$, obovoid to globose; adherence medium, basal markings small irregular russet pentagon; apex markings small indistinct star. Skin medium tough, thin pulpy smooth transparent uniform dull light yellow green, many russet dots; flesh pearly soft juicy; quality very good sweet sprightly, ripens early.
- SEEDS: 2-3. length $1/4$, breadth $1/8$ elongated, pear shaped, parts readily from pulp; beak defined narrow, short, chalaza small depressed; raphe a thread-like cord merging into chalaza. Grown at Varietal Collection Vineyard, Arlington Farm, Va. Pruned to canes trained to Modified Munson System.

Described by .

BRIDE

(Bachman's 1916)

Lab. Vin. Bour.

- ORIGINATED BY: Joseph Bachman, Hot Springs, Ark.
- PARENTAGE: Brighton x Delaware.
- VINE: Vigorous, upright, robust, climbing, dense, trunk strong strong, stout. Very productive.
- YOUNG WOOD: Canes medium size, round or flattened, medium hard, bark thick, rough, light red brown, striped, internodes short, thick, nodes normal; pith small, discontinuous at very thick concave diaphragm; tendrils intermittent forked; buds medium size prominent, rounded, pointed, start early.
- LEAF: Petiole 3 inches long; medium stout smooth glabrous lignous. blade length $6\frac{1}{2}$ inches; breadth $4\frac{1}{2}$ inches. Thin flexible parchment-like, orbicular or broadly cordate, folded irregularly, 3 pointed slightly three lobed, petiolar sinus medium shallow, broad; terminal lobe acute, margin dentate, midrib 5 inches long; prominent depressed, even light straight, pearly scant white pubescence; Upper surface coarsely wrinkled, even between veins, light glossy green; lower surface rugose, lighter, pubescence scant rusty.
- FLOWERS: Abundant, open medium early, stamens upright.
- CLUSTER: Peduncle 1 inch long, slender woody, light yellow green, usually four clusters to the shoot. Larger than Delaware. Comb single $3\frac{1}{2}$ x $1\frac{1}{2}$ inch. 55 berries, regularly conical, regular abrupt taper; slight single shoulder, pedicel length 3 m.m. Medium stout, warty, reddish, distal end, medium, brush long, bundles few, compact, adhere to pedicel, yellow, reddish tips.
- BERRY: $1/2$ to $5/16$ in. oblong to globose, basal markings green ring in red pentagon. Apex markings small indistinct protruding blotch. Skin tough medium, thin, pulpy smooth, translucent, uniform dark red, light blue bloom; flesh pearly, pulpy parts freely from skin, meaty soft, juicy, clear juice quality excellent, sweet, sprightly, not so delicate as Delaware; ripens with Delaware.
- SEEDS: 2-3 length 7 m.m. breadth 3 m.m. pear-shaped; beak short narrow; Chalazae small suborbicular, slightly prominent; raphe very rudimentary, depressed.

Grown at Varietal Collection Vineyard, Arlington Farm, Virginia. Pruned to canes, trained on Modified Munson System.

R. 48 V. 5.6.

Described by

I. W. Dix 1928.

BRILLIANT SEEDLING

(Lab. Vin. Bourq.)

- ORIGINATED BY: C. G. Miller, Booneville, Missouri.
PARENTAGE: Seedling of Brilliant
VINE: Very vigorous, upright, bushy, robust, climbing, dense, trunk stout, strong; very productive.
YOUNG WOOD: Canes medium stout flattened angled, medium hard; bark very thick, rough, short supple, white pubescence, light red brown, striped, spotted, many small black lenticels, internodes medium thick, nodes normal, pith medium small, discontinuous at very thick concave diaphragm; tendrils intermittent forked; buds medium, prominent, flattened, pointed, start early. Growing tip light bronze green.
LEAF: Petiole $3\frac{1}{2}$ in. long, medium slender, smooth, lignous dark violet, striped; blade length $3\frac{1}{2}$ inches breadth $4\frac{1}{2}$ inches, oblate or broadly cordate, folded irregularly, 3 pointed, slightly 3 lobed, petiolar sinus broad, medium shallow, terminal lobe acute to obtuse, margin dentate, midrib 3 inches long, light prominent even straight, light yellowish green, scant loose rusty pubescence. Upper surface coarsely wrinkled, convex, uneven between veins, dull light yellowish green; lower surface rugose, lighter green, scant rusty, minutely hirsute pubescence.
FLOWERS: Abundant, open early, stamens upright.
CLUSTER: Peduncle 2 in. long, slender, wiry, dark brown, comb single 5×2 in. 50 berries, compact regularly conical, gradual regular taper, prominent single shoulder; pedicel short slender warty, yellow green; distal end large without constriction, brush short, bundles few reddish, compact, adhere to pedicel.
BERRY: Above medium to large, globose, adherent, parts from pedicel splitting, part of skin; basal markings large irregular russet pentagon; apex markings distinct small protruding dot. Skin tender, thin smooth, translucent, dark glossy, purple red, uniform at base, thin blue bloom; flesh pearly pulpy juicy, soft, juice clear; Very good quality, slightly foxy, sweet vinous, sprightly, ripens medium early.
SEEDS: Medium, length $1\frac{1}{4}$ breadth, $1\frac{1}{8}$ pear-shaped, stout, parts readily from pulp, beak defined, short, narrow, pointed, chalaza small oval, slightly apparent; raphe depressed, rudimentary.

Grown at Varietal Collection Vineyard, Arlington Farm, Va. Pruned to canes, trained to Modified Munson System.

R. 25 V.3.4.

Described by

I.W. Dix, 1928.

CHAMPANEL
(Champini, Labrusca)

- ORIGINATED BY: T. V. Munson, Denison, Texas, 1893.
- PARENTAGE: Champini x Worden.
- VINE: Very vigorous upright, robust, bushy, dense, trunk stout, strong, productive.
- YOUNG WOOD: Canes stout flattened, medium texture, bark very thick rough, light gray, brown striped, mottled red, nodes darker; internodes medium long, thick, nodes normal, pith small, discontinuous at medium thin concave diaphragm, tendrils discontinuous, intermittent, forked or trifid; buds small, flattened, pointed, start early; growing tips medium light yellow, rusty tomentose.
- LEAF: Petiole $3\frac{1}{2}$ in. long, medium size smooth glabrous curved lignous, light yellowish, flushed vinous red, base enlarged drops with blade; blade 6 inches long; $5\frac{1}{2}$ inches broad; broadly cordate, 3 pointed, entire to slightly 3 lobed; petiolar sinus shallow, broad, terminal lobe acute; margin dentate, midrib 5 inches long, heavy, straight, depressed pearly, vinous red at fork of veins on upper surface, abundant dense, fluffy white pubescence. Upper surface smooth, even between veins, dark glossy green, metallic sheen, scant white pubescence, lower surface rugose, light yellowish to white, abundant white floccose pubescence, turning rusty with age.
- FLOWERS: Abundant, open early.
- CLUSTER: Peduncle long, slender, wiry dark red brown, comb single compact, nearly regularly cylindrical, abrupt regular taper, slight single shoulder, pedicel length 4 m.m. stout, warty, green, distal end constricted, large, brush short, bundles few loose adhere to pedicel, green and red.
- BERRY: $\frac{3}{4} \times \frac{3}{4}$ in. globose, adherence good, parts from pedicel splitting part of skin; basal markings medium regular red ring; apex markings small protruding dot. Skin medium tender, medium thin, pulpy smooth, uniform glossy purple black, thin blue bloom, flesh light red pulpy, parts freely from skin, soft, red juice, fair quality, sweet, quite acid pulp; ripens medium early. Seeds 3; 6 m.m. long, 4 m.m. broad. pear shaped distended stout, parts readily from pulp; beak short, stout, blunt, chalaza prominent large oval, raphe protuberant, a thread-like cord merging into chalaza.

Grown at Varietal Collection Vineyard, Arlington Farm, Virginia. Pruned to canes, trained on Modified Munson System.

Row 19. v. 5.6.

Described by

I. W. Dix, 1928.

CHICAGO

(Lab.)

- ORIGINATED BY: F. L. Rautenberg, Lincoln, Ill.
PARENTAGE: Unknown, chance seedling.
VINE: Vigorous slender, climbing, open, trunk stout strong, good productiveness.
YOUNG WOOD: Canes medium stout, round, hard, bark thick, smooth, short supple pubescence, light red brown striped spotted, internodes medium short, thick, nodes normal, pith medium size, discontinuous at thick concave diaphragm. Many dark brown lenticels tendrils intermittent forked, buds medium large, prominent, flattened, pointed, start early, growing tip dark yellowish green white tomentum.
LEAF: Petiole length 4 in. stout rough, hairy, lignous, yellowish, carmine stripes; blade length 8 in. breadth $7\frac{1}{2}$ in. thick flexible coreaceous, broadly cordate, irregularly undulating; 5 pointed 3 cleft, 3 to 5 lobed; petiolar sinus broad, deep. Terminal lobe acuminate, margin serrulate/ Midrib 6 inches long, heavy, even, straight, light yellowish, abundant white loose, fluffy pubescence. Upper surface rugose, coarsely wrinkled, even between veins, dull dark green, metallic sheen, scant white pubescence at end of lobe and on edge; lower surface lighter or whitish rugose, abundant white floccose pubescence.
FLOWERS: Flowers abundant, open early, stamens upright.
CLUSTER: Peduncle length $1\frac{1}{2}$ in. long stout woody, olive green; comb single, 3 x 1 in. 40 berries, very compact, regularly cylindrical, abrupt regular taper, no shoulder. Pedicel 6 m.m. long, stout warty green, distal end large constricted, brush long, bundles many compact, yellowish adhere to pedicel.
BERRY: Large oblate, often pressed out of shape by compactness of cluster, adhering, parts from pedicel splitting part of skin; basal markings irregular russet ring, apex markings distinct small protruding dot. Skin tough, thick, pulpy, smooth, translucent, dull dark red; flesh tough soft juicy fair quality, sweet foxy acid pulp, ripens medium late, keeps well on vine.
SEEDS: 2-4. Length 6 m.m. breadth 4 m.m. oblate, firmly embedded, beak defined, short blunt narrow, chalaza depressed small oval rudimentary; raphe a protuberant thread like cord ending abruptly at apex.

Grown at Varietal Collection Vineyard, Arlington Farm, Va. Pruned to canes, trained to Modified Munson System. R.51 V. 5-6. Described by I. W. Dix, 1928

CECISIA

(B. clematis #307)

Lab. Vin. 3000.

- ORIGINATED BY: Joseph Buchanan, Altus, Ark.
PARENTAGE: Hubbard x Banner.
VINE: Vigorous, upright, climbing, open, trunk strong, very productive.
YOUNG WOOD: Canes slender round sometimes flattened, medium bark, bark thick, smooth, dark brown striped, short, sparse pubescence; internodes short, thick, nodes normal; pith medium small discontinuous at thick concave diaphragm; tendrils intermittent forked, buds medium large, rounded, pointed, start medium early.
LEAF: Petiole 4 in. long, slender smooth glabrous, light yellow green flush; blade length 6 inches, breadth 5 inches, flexible, thin parchment-like; broadly cordate, folded evenly, 3 pointed slightly 3 lobed; petiolar sinus deep, medium broad; terminal lobe acute; margin serrate; midrib 4 in. long, depressed, even straight, light, light yellowish, scant, loose rusty pubescence. Upper surface finely rugose, convex even between veins, glossy dark green, lower surface rugose, yellowish, abundant rusty floccose pubescence.
FLOWERS: Abundant, open medium early.
CLUSTER: Peduncle length 1/2 in. stout woody, light brown; comb single 5 x 2 in; 25 berries; form irregularly conical; gradual irregular taper, slight single shoulder; Very compact. Pedicel length 4 m.m. slender smooth green; distal end small, slightly constricted; brush short, bundles few, compact adhere to pedicel greenish.
DETAILED: Irregular in size 5/8 to 3/4 in. oblong to globose; adherence very good, parts from pedicel splitting part of skin, basal markings irregular russet pentagon; apex markings large distinct scar. Skin medium tough, thin pulp smooth transparent, dull light yellow, fiber when ripe, many prominent brown dots; flesh nearly, pulpy, meaty, soft, juicy; good quality, sweet agreeably acid.
SEEDS: 2-4, length 7 m.m. breadth 3 m.m. elongated parts readily from pulp; beak defined, long narrow blunt, ch. l. long small oval, prominent, raphe rudimentary, depressed thread like cord. Ripens medium late.

Grown at Varietal Collection Vineyard, Arlington Farm, Va.
Pruned to canes, trained to Modified Tumpson System.

R. 48. 7. 4.5.

Described by
I.W. Dix, 1933.

(Riparia, Labrusca)

- NAMED BY: L. B. Langwell, who procured the cuttings from the garden of M. Piebles, Waterford on the Hudson and introduced it to the trade about 1835. In 1852 the Ohio Pomological Society, determined that Clinton and Worthington which was originated 1821 were identical.
- VINE: Not vigorous, bushy, creeping, dense, productiveness poor; root hard, wiry, strong, slender, long, obliquely penetrating, stump vigorous, trunk strong, slender.
- YOUNG WOOD: Canes slender round, medium texture, bark thin smooth, pubescence long supple; color dark red striped, nodes darker, internodes long thin, nodes enlarged, pith medium, discontinuous at medium size concave diaphragm; lenticels small round; tendrils intermittent forked, color similar to cane; buds medium large, prominent pointed, start midseason, growing tip green hairy.
- LEAF: Petiole length $2\frac{1}{4}$ in. slender, smooth, hairy, flat dark red striped; base enlarged drops with blade, blade length $4\frac{1}{2}$ in.; breadth $3\frac{1}{2}$ in. thin parchment like, cordate, folded evenly depressed along midrib, 3 pointed, 3 cleft, 3 lobed, terminal lobe acuminate, petiolar sinus broad, medium depth, midrib $3\frac{1}{2}$ in. long depressed, curved, light, transparent, light greenish, scant white pubescence, loose fluffy in tufts at forks. Primary veins similar to midrib. Upper surface smooth, finely wrinkled between veins, dark glossy green; lower surface rugose lighter, scant white minutely hirsute pubescence.
- FLOWERS: Abundant small perfect open midseason.
- CLUSTER: Peduncle length $2\frac{1}{2}$ in. stout woody, dark red, comb $2\frac{1}{2} \times 5 \frac{3}{4}$, wt. $1\frac{1}{4}$, 35 berries, single compact, nearly cylindrical regular taper, slight single shoulder; pedicel length $1\frac{1}{4}$ in; slender warty green, distal end medium, without constriction, brush long; bundles many compact, reddish adhere to pedicel.
- BERRY: $3/8 \times 3/8$ globose; adherence very good, basal markings medium size red ring, apex marking, small protruding dot, skin tough, thick smooth, translucent, dull purple black, uniform at base; flesh greenish pulpy juicy parting freely, juice pinkish, poor quality, foxy flavor, indistinct aroma. Use - wine.
- SEEDS: 3-4 length 8 m.m. breadth 3 m.m. elongated; beak defined, short narrow, chalaza slightly prominent small oval, raphe depressed, ending abruptly in chalaza.

Grown at Chico Varietal Vineyard, Chico, California,

Pruned to spurs, trained to stakes. B 1, R 3, V. 25-26.

Described by- F.L. Husmann & E. Snyder, 1916.

COLLIER

(Linc. Lab.)

- ORIGINATOR: T. V. Munson, Dennison, Texas.
- PARENTAGE: A seedling of Port Oak by Concord
- VINE: Vigorous, upright, robust, open, productiveness poor, root soft, fleshy, strong, thick, long, moderately penetrating, stump very strong, trunk slender stout.
- YOUNG WOOD: Canes slender, round, hard, bark thin smooth, dark red striped, nodes darker; pubescence short supple; internodes long thin; nodes enlarged, pith medium size discontinuous at thin concave diaphragm; lenticels small round, tendrils forked intermittent, color similar to cane; buds small prominent pointed, start mid-season, growing tip light red hairy.
- LEAF: Petiole length $2\frac{1}{2}$ in. stout smooth, hairy, carved dark red striped, base enlarged drops with blade; blade length 7 in. breadth 6 in. ovate, thin, parchment like; folded evenly, depressed along midrib, 7 pointed 7 cleft, 7 lobed; petiolar sinus deep broad; terminal lobe acuminate, margin crenate; midrib 6 in. long depressed light straight transparent, vinous red, abundant white pubescence, loose, fluffy in tufts at forks, primary veins similar to midrib; upper surface smooth even between veins, glossy dark green, lower surface rugose, lighter abundant rusty floccose pubescence.
- FLOWERS: Abundant medium size, perfect, open midseason.
- CLUSTERS: Peduncle length $1\frac{1}{4}$ in. slender, wiry, dark red; comb 4 x $7\frac{1}{4}$ in. wt. $1\frac{1}{4}$ lb. 60 berries, single medium compact, nearly conical, slight single shoulder, pedicel length $1\frac{1}{4}$ in. stout warty green; distal end medium size without constriction; brush long, bundles reddish, loose adhere to pedicel.
- BERRY: $1\frac{1}{2}$ x $1\frac{1}{2}$ globose, adhering, basal markings medium size regular russet ring, apex markings, medium size protruding dot; skin thin tender smooth translucent dull black, uniform at base, few brown dots; flesh greenish pulpy juicy soft, juice red, very good quality, foxy flavor, indistinct aroma; Very good keeping midseason table and culinary juice grape.
- SEEDS: 4, length 6 m.m. breadth 4 m.m. pear shaped, part readily from pulp; beak defined short, narrow, chalaza depressed small oval; raphe depressed merging into chalaza.
- GROWN: Chico Varietal Vineyard, Chico, California.
Pruned to canes and spurs, trained to stakes.

Described by

F. L. Husmann & E. Snyder, 1916.

I.W.Dix, 1928.

B 1, R. 5, V. 25-26.

DR. SYLIE
(COOR. VIN)

ORIGINATED BY:

PARENTAGE:

VINE: Upright, slender, climbing; open, vigor good, trunk strong, slender.

YOUNG WOOD: Canes slender, round, medium bark; bark thick, smooth, dark red brown; internodes short, thin, nodes normal. Pith medium, small at base discontinuous thick line; many small, brown lenticels, buff medium, prominent, rounded, pointed, start midseason, growing tip light yellowish green, red flush, slightly tomentose.

LEAF: Petiole length 2 inches, slender, smooth, glabrous, light yellowish, coriaceous; blade length 6 inches, breadth 4 inches, thin flexible, arching like, broadly cordate, folded evenly, undulating, nearly entire, 3 pointed, slightly 3 lobed; either sinus medium in depth and breadth; terminal lobe acute, margin dentate; midrib 4 inches long, light, even straight, nearly, short loose white pubescence. Upper surface convex between veins, light glossy green; lower surface smooth, lighter green, short, white, floccose pubescence.

FLOWERS: Abundant, open early, stems upright.

INFLORESCENCE: Peduncle 1 int. long. Stout woody, dark yellow green.

Compound single 5 x 1 1/2 inches; 45 berries, compact, irregularly conical, taper about irregular; prominent single boulder, pedicel length 5 m.m. slender, smooth, green, distal end small without constriction; bract short, bandless few, compact, adhere to pedicel, greenish.

BERRY: Uneven in size 3/4 to 5/8 inches, globose to slightly oblong, parts from pedicel splitting part of skin; basal scar's irregular russet pentagon; stem markings small indistinct dot. Skin medium tough, thin, waxy, smooth, light mottled green, dull; flesh light greenish, crisp fresh, from skin, tender soft juicy; utility very good.

SEEDS: Flavor sweet, slightly delicate acid. Season medium 1 to 1-3. Length 6; breadth 5 m.m. color stout, earth red clay from pulp; bark defined short narrow, chalazae prominent small oval, raphe a thread like cord merging into chalazae.

Grown at Varietal Collection Vineyard, Arlington, Virginia.
Pruned to cane, trained on Modified Tuncen System.

245. V 9,10

Described by

I.W. Dix, 1922.

DOWNING
Lab. Vin. Aest.

Originated by J. H. Ricketts, Newburgh, N.Y. about 1835.

Vine: Vigorous, upright, robust, dense; stump vigorous, trunk strong and slender, good producer.

Young Wood: Canes medium texture, stout, flattened; bark thick, smooth; pubescence short, supple; color dark red, striped, nodes darker; internodes medium length, thick; Nodes enlarged, divergent; pith large, discontinuous, convex at thick diaphragm; tendrils forked, discontinuous, color similar to cane; buds prominent, large, pointed, start midseason. Growing tip light reddish, hairy.

Leaf: Petiole length 3 in., vinous red, striped, medium smooth, hairy; base enlarged drops with blade; blade length 7 in., breadth $5\frac{1}{2}$ in., thin, parchment-like; oblate folded evenly, 3-pointed, 3-cleft, slightly 5-lobed; petiolar sinus deep, narrow, overlapped; terminal lobe acuminate; margin serrate; midrib 5 in. long, light green, prominent, straight, heavy, pubescence white, scant, loose, patchy at forks; primary veins similar to midrib; upper surface rugose coarsely wrinkled, even between veins, dark glossy green, pubescence white, scant; lower surface lighter, rugose, pubescence scant white.

Flowers: Abundant, medium size, perfect; open early.

Clusters: Peduncle length 1 in., light brown, slender, woody; comb single, compact, size $6\frac{1}{2} \times 2\frac{1}{2}$ in., 100 berries, form nearly cylindrical, gradual taper, no shoulder; peduncle $\frac{1}{4}$ in., green, slender, warty; distal end medium without constriction; brush long; bundles few, compact, adhere to pedicel, greenish.

Berry: $\frac{3}{4} \times \frac{1}{2}$ in., ovoid, adherence good; basal markings medium russet pentagon with rays; apex markings small protruding star. Skin medium tender, thick, smooth, translucent dull, dark purple, lighter at base, many prominent reddish dots; flesh greenish pulpy, firm, juicy; juice white. Quality excellent, flavor sweet-water, aroma indistinct; keeping quality very good, use table, shipping. Ripens midseason, Sept. 20th.

Seeds: 2-3. Length $\frac{3}{4}$, breadth $1/8$ in., pear-shaped, firmly imbedded; beak short, narrow defined; chalaza small depressed oval, merging into chalaze. Resistance good to excellent.

Grown at Oakville Experiment Vineyard, Oakville, California. Pruned to spurs, trained to stakes.

Described by F. L. HUSMAN

B 5, R 171. Vine 9 & 10.
Probably 1922.

EARLY CONCORD

- ORIGINATED BY: J. Kready, Mt. Joy, Pennsylvania.
PARENTAGE: Unknown
VINE: Vigorous, upright, bushy open, stump strong trunk strong slender.
YOUNG WOOD: Canes slender, flattened, medium hard, bark thin, rough, light brown striped, spotted; nodes darker pubescence short, supple, internodes medium length and thickness; nodes enlarged, flattened, pith small discontinuous, concave at thick diaphragm; lenticels many, small, dark brown; tendrils continuous simple and forked, color similar to cane; buds medium size, prominent, pointed, start early, growing tips yellowish green, hairy; petiole length $3\frac{1}{2}$ in. stout, smooth, hairy, curved lignous, dark yellowish, red at base, base enlarged, drops separate from blade; blade length 6 in. breadth 6 in. thin flexible, coriaceous, orbicular, broadly cordate, 3 pointed, slightly 3 lobed; petiolar sinus medium deep and broad; terminal lobe acuminate, margin dentate, midrib $4\frac{1}{2}$ in long, prominent even straight medium heavy greenish yellow, pubescence abundant, felty down at forks; rusty, primary veins similar to midrib; upper surface finely rugose, wrinkled, convex uneven between veins, dull dark green. Lower surface, greyish white rugose, abundant white pubescence. Young leaves flushed rose.
CLUSTER: Peduncle length 1 in. Slender wiry, woody, yellowish green. Comb 3 x 1 in. 45 berries, single, medium loose, nearly regularly conical, abrupt regular taper, prominent single shoulder, pedicel length $1\frac{1}{8}$ in. stout, medium, smooth, yellow green distal end large constricted, brush short, bundles few compact, adhere to pedicel, greenish.
BERRY: $5\frac{5}{8} \times 5\frac{5}{8}$ in. Adherence good, parts from pedicel splitting part of skin, globose; basal marking large irregular russet ring with rays; apex marking small, indistinct blotch, protruding. Skin medium thick, medium tender, pulpy rough dull, with heavy bloom, uniform dark purple black, flesh light greenish parting freely, soft juicy; Quality very good, flavor similar to concord, pronounced foxy aroma. An excellent table grape, ripens early.
SEEDS 1-2, length $1\frac{1}{4}$, breadth $3\frac{3}{16}$, pear shaped, distended, stout, firmly imbedded, beak defined, short stout, thick, chalaze depressed, long wide oval, raphe depressed, very rudimentary.

Grown at Arlington Varietal Collection Vineyard, Arlington Farm, Arlington, Virginia. Pruned to canes trained to modified Munson System.

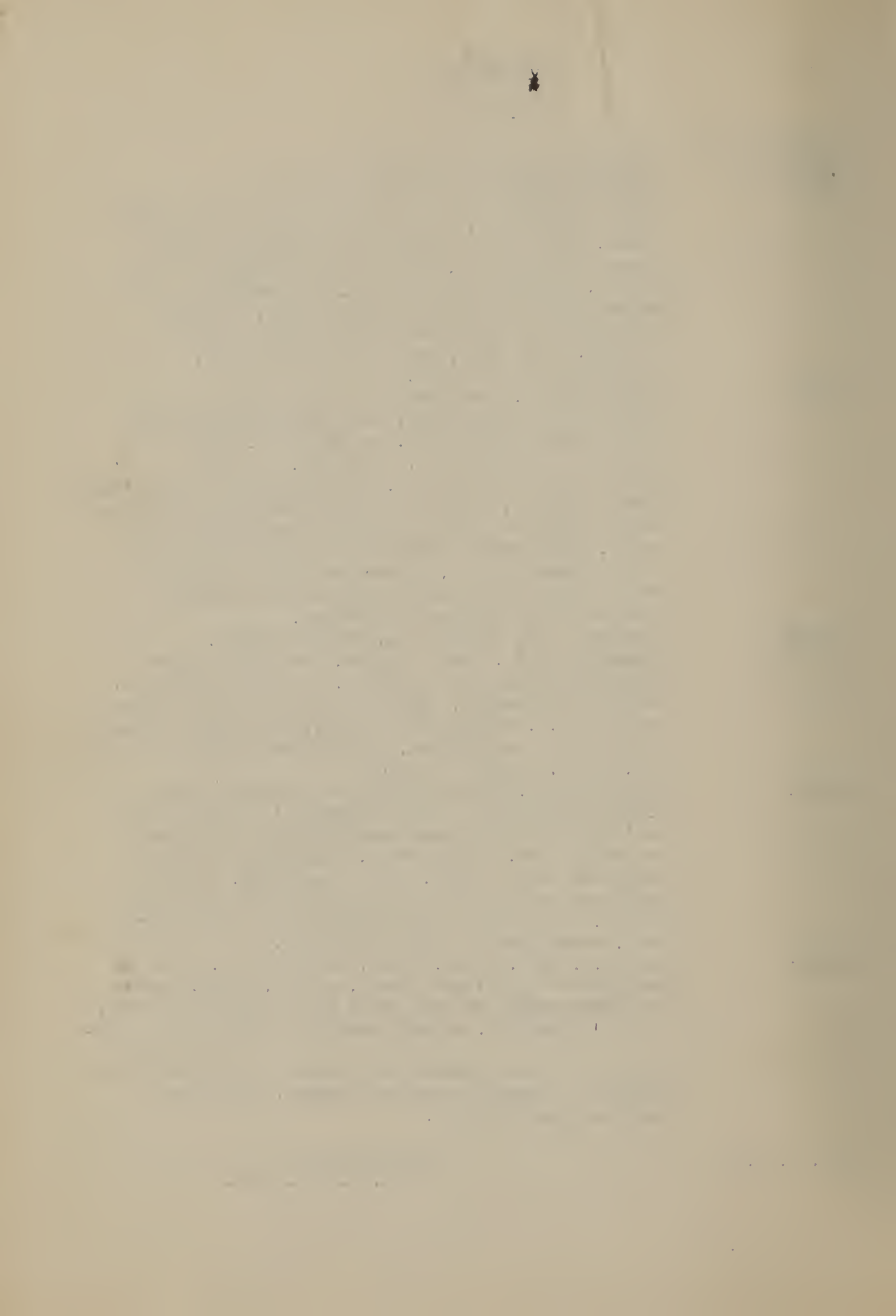
Described by
I.W.D. 1927.

ELVIRACH

(Rip.Lab.)

- ORIGINATED BY: T. V. Munson, Denison, Texas.
PARENTAGE: Elvira X Bacchus. Not good yield here.
VINE: Very vigorous, upright, robust, dense, trunk strong, stout, young wood, canes stout, round, hard, bark thick, rough, dark brown faintly striped, black spots, nodes darker, internodes medium, thick, nodes normal, flattened on one side, with medium discontinuous at very thick diaphragm, tendrils intermittent forked; buds medium small, round pointed, start late, growing tip dark green, reddish flush, glabrous.
LEAF: Petiole $2\frac{1}{2}$ in. long, medium slender smooth lying flat, parrot green, base enlarged drops with blade; blade length 6 in. breadth 5 in. thin flexible parchment-like, 3 pointed, 3 lobed; petiole sinus, medium deep, narrow, closed to overlapping, margin serrate, teeth even wide; midrib 4 inches long even, light straight, light green; pubescence white scant, loose downy. Upper surface finely rugose, uneven between veins, pubescence scant; color dark green, dull; Lower surface rugose, light green abundant white floccose pubescence.
FLOWERS: Abundant, open medium late, stamens reflex.
CLUSTER: Peduncle $1\frac{1}{2}$ in. long, slender, wiry dark yellow green; comb single $2 \times \frac{3}{4}$ inc. 20 berries; compact, irregularly conical, gradual irregular taper; pedicel length 5 m.m. slender warty green, distal end medium with slight constriction, brush short, bundles greenish, few, loose, adhere to pedicel.
BERRY: $1\frac{1}{2}$ to $\frac{5}{8}$ in. globose, adherence medium, parts freely from pedicel; basal markings irregular russet pentagon with rays; apex markings small indistinct protruding dot. Skin tender, thin smooth, glossy; very dark purple black, heavy blue bloom, few not prominent white dots, flesh light greenish, parting freely. Firm meaty juicy; juice clear, quality very good, sweet spicy ripens medium late.
SEEDS: 3. 7 m.m. long, 5 m.m. broad, subspherical, parts readily from pulp; beak short, narrow, sharp, seed coat very rough; chalaza small oval slightly apparent, raphe rudimentary, ending abruptly, a thread-like cord.

Grown at Varietal Collection Vineyard, Arlington Farm, Virginia. Pruned to canes and spurs, trained on Modified Munson System.



EMERALD
(Vin. Bourq. Lab.)

- ORIGINATED BY: Dr. Wm. Sanders, Ottawa, Canada, 1886
PARENTAGE: Supposedly Delaware X Some Vinifera.
VINE: Fairly vigorous, upright, slender, open, trunk strong slender, uncertain in productiveness.
YOUNG WOOD: Canes stout round, soft, bark very thick slightly rough, light gray, brown stripes, tiny black spots, nodes darker, internodes medium long, thick, nodes normal, pith large discontinuous at very thick concave diaphragm; tendrils discontinuous, intermittent, forked buds medium large prominent, flattened, pointed, start early; growing tip light yellowish green, reddish stripe, slightly tomentose.
LEAF: Petiole 4 in. long, medium stout, rough curved lignous vinous red; base enlarged drops with blade. blade 6 in. long; $5\frac{1}{2}$ inches broad, thick, flexible, coreaceous, broadly cordate, 3 pointed, 3 cleft, 3 lobed; petiolar sinus medium in depth and breadth; terminal lobe acute, margin serrulate or serrate; midrib $4\frac{1}{2}$ in. long, light, even, curved, light green, scant loose white pubescence. Upper surface finely rugose, convex, dark dull green, lower surface smooth light yellowish, abundant rusty white pubescence.
FLOWERS: Abundant, open early, stamens upright.
CLUSTER: Peduncle length $\frac{3}{4}$ in. medium stout woody, dark yellow brown. Comb single, $3\frac{1}{2}$ x 1 in. 50 berries, medium compact, nearly cylindrical, abrupt regular taper, slight single shoulder, pedicel length 3 m.m. medium stout, warty, green, distal end constricted large, brush medium, bundles many reddish compact.
BERRY: Berry $1\frac{1}{2}$ x $\frac{9}{16}$, slightly oblong to globose; adhering, parts from pedicel splitting part of skin; basal markings small irregular russet ring, apex markings indistinct small protruding blotch; skin tender thin smooth, pulpy, uniform, very dark purple black, heavy blue bloom, flesh pearly, pulpy meaty, juicy, juice red; very good quality, sweet vinous sprightly flesh, ripens midseason.
SEEDS: 1-2, length 7 m.m. breadth 5 m.m. pear-shaped, stout, part freely from pulp; beak defined medium size, narrow, chalaza, prominent large wide oval.

Grown at Varietal Collection Vineyard, Arlington Farm, Va.
Pruned to canes, trained to Modified Munson System.

R. 27, V 9,10.

Described by

I. W. Dix, 1928.

EUMEDEL

(Lab. Aest. Linc. Bourq.)

- ORIGINATED BY: T. V. Munson, Denison, Texas.
- PARENTAGE: Eumelan X. Delaware
- VINE: Medium vigorous, upright, slender, climbing, open trunk strong, slender; productiveness fair.
- YOUNG WOOD: Canes stout, round, medium texture; bark thick rough, light brown, striped, nodes darker, blue bloom, internodes long, thick; nodes normal flattened; pith medium large, discontinuous at thick concave diaphragm, tendrils discontinuous, intermittent forked, buds large, flattened, prominent, rounded, start midseason, growing tip light greenish, reddish, stripes glabrous.
- LEAF: Petiole $5\frac{1}{2}$ inches long; stout, rough, hairy, lying flat, lignous, dark yellowish green, vinous red stripes, blade 7 in. long; 6 in. broad, medium thick, flexible coriaceous, cordate, 3 pointed, slightly 3 lobed; petiolar sinus deep, medium broad; terminal lobe acuminate; margin serrate; midrib $5\frac{1}{2}$ in. long, prominent, straight, even, heavy, light yellowish green, pubescence russet, scant loose, patchy. Upper surface rugose, coarsely wrinkled, convex, dark dull yellowish green; lower surface rugose, olive green, scant rusty floccose pubescence.
- FLOWERS: Abundant, open medium early, stamens upright.
- CLUSTER: Peduncle $1\frac{1}{2}$ in. medium slender, woody, dark yellow green; comb single $4\frac{1}{2} \times 1\frac{1}{2}$ in. 55 berries, medium compact, irregularly cylindrical; abrupt irregular taper, slight single shoulder; pedicel length 5 m.m. medium slender warty green; distal end large constricted; brush short, bundles few, loose, yellowish, reddish tint, adhere to pedicel.
- BERRY: $5/8 \times 5/8$ globose, adhering, parts from pedicel splitting part of skin. basal markings irregular red ring. Apex markings indistinct small depressed blotch. Skin medium tough, medium thick, smooth, pulpy, glossy dark purple black, uniform at base, heavy blue bloom, flesh light greenish, parts freely, juicy, soft, meaty, juice pinkish, excellent quality, sweet sprightly; ripens medium late.
- SEEDS: 2-3 length 8 m.m. breadth 5 m.m. pear-shaped, oblate, part readily from pulp, beak defined, short blunt, narrow, chalaza slightly prominent small oval, raphe a thread-like cord, slightly protuberant, ending abruptly.

Grown at Varietal Collection Vineyard, Arlington Farm, Va.

FRANKLIN

A wild grape found on French Creek, Crawford County, Pennsylvania.

- VINE: Very vigorous, upright, bushy, dense, trunk stout.
- YOUNG WOOD: Canes stout, flattened, angled, medium hard, bark very thick, rough, light brown, striped and spotted, dark brown, internodes long, thick, nodes enlarged; pith large discontinuous at plain thin diaphragm; tendrils continuous forked, buds medium large, prominent, flattened, pointed, start early,
- LEAF: Petiole $2\frac{1}{2}$ inches slender, smooth, curved, light yellowish; blade length 5 in. breadth $4\frac{1}{2}$ inches, thin flexible, parchment like, 3 pointed, nearly entire to slightly 3 lobed; petiolar sinus medium in breadth and depth, terminal lobe acute, margin serrate, midrib 4 in. long, even straight, light yellowish green, abundant dense, fluffy, white pubescence. Upper surface smooth grassy dark green, scant white pubescence; lower surface lighter, smooth, glaucous, scant white, minutely hirsute, pubescence.
- FLOWERS: Abundant, open early, stamens reflex.
- CLUSTER: Peduncle $\frac{3}{4}$ in. long, slender, woody dark yellow green; comb single $2\frac{1}{2} \times 1$ in. 21 berries, medium compact, irregularly conical, gradual irregular taper, slight single shoulder, pedicel length 4 m.m. medium size, nearly smooth, distal end medium size slightly constricted, brush short, bundles few, loose, greenish, reddish tip, parts freely from pedicel.
- BERRY: $1\frac{1}{2} \times 5\frac{1}{8}$ in. globose, adhering, parts from pedicel splitting part of skin; basal markings russet and green regular pentagon. apex markings indistinct, medium, protruding dot. Skin tender, thin, smooth, translucent, very dark, glossy purple black, uniform at base, flesh greenish red streaks, pulpy, parts from skin freely, tough, soft juicy, juice red, quality good, sweet with quite acid pulp; ripens midseason.
- SEEDS: 1-2. length 7 m.m. breadth 5 m.m. subspherical, distended, stout, firmly embedded, beak defined short, blunt, narrow; chalaza depressed, large wide oval, very rudimentary, raphe a thread-like cord ending abruptly at apex of seed.

Grown at Varietal Collection Vineyard, Arlington Farm, Virginia. Pruned to canes, trained to Modified Munson System.

R 6, V. 7,8.

Described by

I. W. Dix, 1927-8.

GOLD DUST
(Lab. Vin. Bourq.)

- ORIGINATED BY: T. V. Munson, Denison, Texas, 1880.
PARENTAGE: Lindley X. Delaware.
VINE: Very vigorous, upright, robust, climbing dense, trunk strong, stout, very productive.
YOUNG WOOD: Canes stout round, hard; bark thin, smooth, dark red brown, nodes darker; internodes long, thick, nodes enlarged, slightly flattened; pith medium small, discontinuous at medium, concave diaphragm; tendrils intermittent forked, long, strong, buds medium, prominent rounded, pointed, start early, growing tip light olive green tomentose.
LEAF: Petiole $3\frac{1}{2}$ in. long, medium stout, glabrous curved; light vinous red; blade length $5\frac{1}{2}$ in. breadth $5\frac{1}{2}$ in. medium thick, flexible, coriaceous, broadly cordate, 5 pointed, deeply 5 lobed, petiolar sinus deep, medium broad; terminal lobe acute to obtuse; margin serrulate, undulate, midrib 4 in. long prominent, straight, heavy, pearly scant white pubescence in tufts. Upper surface rugose, finely wrinkled convex, dull dark green; lower surface light green rugose, scant rusty floccose pubescence.
FLOWERS : Abundant, open early, stamens upright,
CLUSTER: Peduncle 1 in. long, slender, wiry, dark yellow green; comb single 3 x 1 in.; 30 berries, medium compact; form irregularly conical, irregular gradual taper, slight single shoulder; pedicel length 5 m.m. green slender warty; distal end medium large without constriction; brush short; bundles greenish few, adhere to pedicel.
BERRY: $1\frac{1}{2} \times 1\frac{1}{2}$ in. globose, adherence medium, parts from pedicel freely; basal markings small regular russet pentagon; apex markings distinct, small protruding dot. Skin medium tough, thin, pulpy, smooth, transparent, dull light yellow green, uniform, gray bloom, few not prominent brown dots; flesh pearly, tenaceous, pulpy, soft, juicy, quality fair, sweet, foxy slightly acid at seeds; ripens early.
SEEDS: 2-3. length 7 m.m. breadth 4 m.m. pear-shaped, firmly embedded; beak defined, short, stout, blunt, chalaza small depressed oval, very rudimentary, raphe very rudimentary, a thread-like cord ending abruptly at the apex.

Grown at Varietal Collection Vineyard, Arlington Farm, Va. Pruned to canes, trained on Modified Munson System.

GOLDEN GRAPE

(Lab. Vin. Bourg.)

- ORIGIN AND BY: T. V. Munson, Denison, Texas.
PARENTAGE: Lindley x Delaware.
VINE: Very vigorous, upright, bushy, robust, dense, trunk strong, stout, produces large quantity of poor quality fruit.
LEAF WOOD: Cane stout, round median lobe, bark very thick, rough, dark red brown, striped, spotted, internodes long, thick; with large discontinuous very thick chain diaphragm; small lenticels; tendrils intermittent, forked; buds large prominent, flattened, start early.
LEAF: Petiole length 7 in. stout, rough, tomentose curved, lignous, dark yellowish, carmine striped, blade length 3 in. breadth 3 in. orbicular or broadly cordate, folded evenly, depressed along midrib, 3 pointed, slightly 3 lobed; terminal lobe acuminate, margin dentate, teeth wide shallow; midrib 7 in. long, heavy, even, straight, depressed, light yellowish, carmine patches, abundant loose white pubescence: felty down at the forks. Upper surface finely rugose, convex. Very dark dull green with metallic sheen; lower surface rugose glaucous, light yellowish, abundant rusty floccose pubescence. Flowers abundant open early, stamens upright.
INFLORESCENCE: Peduncle 1 in. long, medium, slender woody, light yellow green, Comb single 3 x 1 inches; 50 berries, medium compact. Form regularly cylindrical, regular abrupt taper, prominent single shoulder; pedicel length 5 m.m. slender warty, green, distal end medium large constricted, brush none to short, bundles few compact, yellowish, shatter with berry, 1/2 x 1/2 in. globose, parts from pedicel freely, basal markings regular russet pentagon; apex markings small distinct protruding dot. Skin tough, thin, smooth, pulp transparent, dull light yellow green, amber when fully ripe. Many russet dots; flesh pearly, juicy, parting freely, tough, soft, juicy, quality poor, sweet at skin white acid *very* astringent at seed. Ripens early.
SEEDS: 2-5, length 7 m.m. breadth 5 m.m. pear-shaped, stout, firmly embedded; beak short blunt thick; chlam. none; raphe none or very rudimentary.

Grown at Varietal Collection Vineyard, Arlington Farm, Virginia. Pruned to canes, trained on Modified Munson System.

GOVERNOR ROSS

(Lab. Vin.)

- ORIGINATED BY: T. V. Munson, Denison, Texas, 1894.
- PARENTAGE: Seedling of Triumph.
- VINE: Fairly vigorous, upright, slender, open, trunk strong, slender, productiveness medium to poor.
- YOUNG WOOD: Canes stout, round somewhat flattened medium hard, bark thick smooth, light yellow brown, russet spots, nodes darker, internodes long thick, nodes enlarged; pith medium large, discontinuous at very thick concave diaphragm; growing tip light green glabrous.
- LEAF: Petiole length 3 in. medium rough glabrous, curved lignous, light yellowish, red stripes; blade $5\frac{1}{2}$ in. long, $5\frac{1}{2}$ in. broad, orbicular or broadly cordate, thin, flexible, parchment like, folded irregularly, 3 pointed, slightly 3 lobed; petiolar sinus medium in depth and width; terminal lobe acuminate, margin deeply dentate, midrib 4 in. long, depressed, even straight, light yellowish green, scant loose white pubescence. Upper surface rugose, finely wrinkled, uneven between veins, convex, dark yellowish green, scant white pubescence; lower surface lighter, rugose, abundant white floccose pubescence.
- FLOWERS: Abundant, open midseason, stamens upright.
- CLUSTER: Peduncle length $1\frac{1}{2}$ in. slender, wiry, dark yellow green, comb single; $5\frac{1}{2}$ x $1\frac{1}{2}$ in. 40 berries, medium compact to loose, irregularly conical, gradual irregular taper, slight single shoulder, pedicel length $\frac{3}{16}$ in. medium slender, warty, yellow green reddish spots; distal end large constricted, brush medium long, bundles few compact yellowish adhere to pedicel.
- BERRY: $\frac{7}{8}$ x $\frac{3}{4}$, oblong or oblate, adhering parts from pedicel splitting part of skin; basal markings irregular russet ring, rays and dots; apex markings distinct small scar, protruding; Skin medium tender, thin, pulpy smooth transparent, dull light greenish yellow, many prominent brown dots; flesh parts freely from skin; light greenish meaty soft juicy; quality excellent, sweet sprightly slightly foxy; ripens midseason.
- SEEDS: 1-2 length $\frac{1}{4}$ in. breadth $\frac{3}{16}$, pear-shaped, stout part readily from pulp; beak defined short blunt narrow, chalaza very rudimentary small oval, raphe a protuberant thread-like cord merging into the chalaza.

Grown at Varietal Collection Vineyard, Arlington Farm, Virginia. Pruned to canes, trained to Modified Munson System. R 5 V 9,10.

Described by: I. W. Dix, 1927.

JAEGER
(Syn. Herman Jaeger)
(Lincecumii Bourquiniana)

- ORIGINATED BY: T. V. Munson, Denison, Texas, 1883.
- PARENTAGE: Premier X Herbemont.
- VINE: Very vigorous, robust, bushy dense, root soft, fleshy, thick long, moderately penetrating; stump strong, trunk strong, slender.
- YOUNG WOOD: Slender round, hard, bark thin smooth, dark red, striped, nodes darker; pubescence short, supple, internodes long, thin; nodes enlarged; pith medium size discontinuous at medium thick diaphragm; lenticels medium round; tendrils intermittent forked, color similar to cane; buds small prominent, pointed, start midseason, growing tip light green hairy.
- LEAF: Petiole length 3 in. slender, smooth, hairy, flat, dark red striped, base enlarged drops with blade; blade length 5 in. breadth 4 in. thin parchment like, narrowly peltate, folded evenly, depressed along midrib; 5 pointed, 3 cleft, 5 lobed; petiolar sinus deep, narrow, overlapped, terminal lobe acuminate, margin dentate, midrib $3\frac{1}{2}$ in. long, depressed light straight trans-parent, light greenish, abundant white loose pubescence, fluffy, in tufts at forks, upper surface smooth, finely wrinkled between veins, dull dark green, scant white pubescence, lower surface rugose, lighter, abundant white floccose pubescence.
- FLOWERS: Small, perfect, open midseason.
- CLUSTERS: Peduncle length $1\frac{1}{2}$ in. slender, wiry, light brown, comb $3\frac{1}{2} \times 4 \frac{1}{4}$ in.; weight $\frac{1}{4}$ lb. 50 berries, single medium compact, nearly conical, taper gradual, no shoulder, pedicel length $\frac{1}{4}$ in., slender, warty green, distal end medium without constriction, brush short, bundles few loose reddish, adhere to pedicel.
- BERRY: Berry $\frac{1}{2} \times \frac{1}{2}$ in. globose, adherence very good; basal markings medium size regular russet pentagon; apex markings small protruding dot; skin tough, thick smooth dull translucent, black, uniform at base, few prominent reddish dots, flesh greenish, soft juicy, parting, freely, juice reddish; quality good, ~~very~~ flavor, indistinct aroma, very good midseason wine grape, very good producer.
- SEEDS: 4, length 7 m.m. breadth 3 m.m. pear-shaped stout, parts readily from pulp; beak defined short narrow. Chalaza prominent large oval, raphe depressed merging into chalaza.

Grown at Chico Varietal Vineyard, Chico, California.
Pruned to canes and spurs, trained to stakes.

B 1, R 10, V. 29,30.

Described by

F. L. Husmann & E. Snyder - 1916

JUDGE MILLER

(Rip Vin. Lab.)

- ORIGINATED BY: E. F. L. Rautenberg, Lincoln, Ill.
PARENTAGE: Cornucopia x Hartford.
VINE: Upright, slender, straggling, open; trunk slender, fairly productive.
YOUNG WOOD: Canes slender, round to somewhat flattened, medium hard; bark thick, dark brown striped, internodes short thin; nodes normal; pith medium, discontinuous at medium size, concave diaphragm, tendrils discontinuous intermittent forked; buds medium size prominent rounded pointed, start midseason; growing tip light green, white tomentum.
LEAF: Petiole $1\frac{1}{2}$ in. long, slender, smooth, glabrous, lying flat, lignous, dark vinous red striped; blade length $4\frac{1}{2}$ in. breadth 4 in. thin, flexible parchment like, folded irregularly, 3 pointed, entire to slightly 5 lobed, petiolar sinus medium deep, narrow to overlapping; terminal lobe acute; margin dentate, broad shallow teeth; midrib 3 in. long, light, depressed curved, light vinous red, scant white pubescence; Upper surface smooth, coarsely wrinkled, convex, uneven between veins, light green, lower surface rugose, lighter scant white floccose pubescence.
FLOWERS: Abundant, open medium early, stamens upright.
CLUSTER: Peduncle $\frac{3}{4}$ in. long, medium woody, olive green; comb $3 \times 1\frac{1}{2}$ in. 45 berries, compact, irregularly cylindrical abrupt irregular taper, slight single shoulder, pedicel length $\frac{1}{4}$ in. medium slender, smooth, green, distal end large constricted, brush short, bundles reddish, many adhere to pedicel.
BERRY: $\frac{1}{2} \times \frac{1}{2}$ in. globose, adhering, basal markings large regular red pentagon. Apex markings indistinct small protruding dot. Skin medium tough, thin, pulpy, smooth, translucent, uniform dark purple black, blue bloom, few not prominent brown dots, flesh light greenish, pearly, pulpy, parting freely, juicy soft, juice colorless. Very good quality, sweet sprightly vinous; ripens medium early.
SEEDS: 3×4 , length $\frac{1}{4}$ in. breadth $\frac{5}{32}$ in. elongated, pear shaped, part readily from pulp; beak defined, stout blunt thick, chalaza, slightly prominent large oval; raphe a thread-like cord ending abruptly.

Grown at Varietal Collection Vineyard, Arlington Farm, Virginia. Pruned to canes, trained to Modified Munson System. R 13, V 3.

Described by

I.W. Dix 1928.

KIOWA.
(Linc. Bourq.)

- ORIGINATED BY: T. V. Munson, Denison, Texas, 1893
PARENTAGE: Jaeger #43 X Herbemont.
VINE: Very vigorous, upright, bushy, straggling, climbing, dense; productiveness very good.
YOUNG WOOD: Canes slender round, angled, medium hard; bark thick smooth, dark brown striped, internodes thin medium short, nodes normal; pith medium large discontinuous at thin concave diaphragm, tendrils intermittent forked; buds small rounded, pointed, start early. Growing tip light reddish, glabrous.
LEAF: Petiole 2 in. long, slender, smooth, curved, glabrous, vinous red; blade length 4 in. breadth $3\frac{1}{2}$ in. thin, flexible, parchment like, nearly orbicular, 3 pointed, slightly 3 lobed; petiolar sinus very shallow, very broad, margin unevenly dentate, midrib 4 in. long, prominent, even curved at tip, light greenish vinous red at base. Upper surface smooth dark green, lower surface smooth lighter green.
FLOWERS: Abundant, open late, stamens reflex.
CLUSTER: Peduncle $1\frac{1}{2}$ in. long, stout woody, dark red, comb single 4 x 2 in. 50 berries, medium to compact, irregularly conical, gradual irregular taper, slight single shoulder; pedicel $\frac{3}{16}$ in. long reddish, medium stout warty; distal end medium size constricted; brush long bundles few compact, reddish, adhere to pedicel.
BERRY: Small to medium, globose, adherent, parts from pedicel splitting part of skin. Basal markings medium size irregular russet and red ring; Apex markings distinct small protruding dot. Skin thin tender, smooth, translucent, uniform glossy dark purple, heavy blue bloom; flesh soft juicy meaty, pearly parting freely, juice pink. Very good quality; sweet vinous, pleasant acid, pronounced vinous aroma. ripens late.
SEEDS: 3-4. length $\frac{1}{4}$ in. breadth $\frac{3}{16}$ in. pear shaped, distended parts readily from pulp; beak defined, narrow short blunt, chalaza slightly depressed small oval, raphe a protuberant thread-like cord ending abruptly.

Grown at Varietal Collection Vineyard, Arlington Farm, Virginia. Pruned to canes, trained to Modified Munson System. R 16, V. 3,4.

Described by

I. W. Dix 1928.

Krause
(Bourq. Lab. Vin.)

Red TUM
claims of
none of the
Foundation -
18 118

- ORIGINATED BY: Prof. E. W. Krause, Waco, Texas, 1893
- PARENTAGE: Herbemont X Niagara
- VINE: Very vigorous, robust, upright, dense, trunk stout strong; productiveness excellent.
- YOUNG WOOD: Canes stout, round, medium hard; bark very thick, rough, light yellow brown striped, many rusty spots, internodes medium thick, nodes normal, pith medium large, discontinuous at medium thin concave diaphragm; tendrils intermittent forked, buds medium large prominent, rounded, pointed, start medium early, growing tip light green glabrous.
- LEAF: Petiole 4 in. long, medium stout, rough, hairy, light yellowish, dark green stripe, blade length $6\frac{1}{4}$ in. breadth $5\text{--}3\frac{3}{4}$ in. thin flexible parchment like, 3 pointed, nearly entire to slightly 3 lobed; petiolar sinus medium in width and depth, terminal lobe acuminate, margin serrate or dentate; midrib 5 inches long, light even straight, dark yellowish green, pubescence scant loose russet, tufts of felty down at forks. Upper surface finely rugose, dark dull leaden green; lower surface smooth light yellowish, abundant rusty floccose pubescence.
- FLOWERS: Abundant, open medium early, stamens upright.
- CLUSTER: Peduncle medium length, stout, woody, dark yellow green; comb single medium compact, regularly cylindrical, regular abrupt taper, prominent single shoulder; pedicel length $1\frac{1}{4}$ in. medium slender, warty, green, reddish dots; distal end medium size constricted; brush short, bundles few compact, greenish, adhere to pedicel.
- BERRY: Size $3\frac{3}{4} \times 3\frac{3}{4}$, obovoid to globose, adhering, parts from pedicel splitting part of skin; basal markings small irregular russet pentagon; apex markings small, distinct protruding dot. Skin thin, tender, pulpy, smooth transparent, light green, yellowish when ripe, few prominent russet dots, gray bloom; flesh pearly pulpy, juicy, soft, very good quality, sweet, agreeably acid, ripens medium early.
- SEEDS: 2-3 length $5\frac{1}{16}$, breadth $3\frac{1}{16}$ pear shaped, distended. part readily from pulp; beak detached, narrow, short, blunt, chalaza depressed, small, oval, very rudimentary, raphe depressed, rudimentary.

Grown at Varietal Collection vineyard,
Arlington Farm, Va. Pruned to canes, trained to
Modified Munson System. R 27 V 3,4

Described by

I.W.Dix.

LIGHTFOOT
(Ill. Vin.)

- ORIGINATED BY: I. T. Lightfoot, Springfield, Ill.
- PLANTAGE: Seedling of Niagara
- VINE: Vigorous, upright, slender, straggling on a trellis strong, slender, excellent producer.
- YOUNG WOOD: Canes medium slender, flattened, hard, bark thick, smooth, light and dark brown, striped, dotted, internodes medium, nodes normal, flattened, with medium, discontinuous at thick concave dischord; many small dark brown lenticils; tendrils intermittent forked; buds medium, flattened, pointed, start early; growing tip light yellowish green, tomentose.
- LEAF: Petiole $3\frac{1}{2}$ inches long. Medium stout rough floccose, lignous, dark vinous red; blade 6 x 6 inches. Oblate, broadly cordate thick flexible coriaceous, irregularly undulating, entire and 5 pointed, slightly 5 lobed; petiolar sinus shallow and none broad; terminal lobe acute to obtuse; margin serrulate; midrib 5 inches long, depressed, curved, heavy, dark purple violet at base, otherwise yellow, abundant rusty, loose fluffy pubescence. Upper surface rugose, finely wrinkled, even between veins, dull dark green; lower surface rugose yellowish, abundant rusty, floccose pubescence. Flowers abundant, open early, stamens upright.
- CLUSTER: *Reduncle* Pedicel 1 inch long, stout woody dark yellow brown: Comb single, 4 x 2 in; 60 berries; form very compact, irregularly cylindrical, gradual irregular taper; prominent single shoulder; pedicel length $1\frac{1}{4}$ inch; stout warty, reddish green; distal end large slightly constricted; brush medium; bundles many; yellowish, adhere to pedicel.
- BERRY: $7/8$ to $3/4$: obovoid, globose or oblate, unsightly by reason of compactness of cluster; adhere well, part from pedicel splitting part of skin; basal markings large russet pentagon, with regular green ring above markings; small indistinct blotch; skin tough, medium thick, pulpy, rough translucent, dull light red or pink, lighter at base, not an attractive color; flesh early, pulpy, somewhat tough, parting freely. Soft juicy; quality good, sweet, foxy, ripens medium late.
- SEEDS: $5/16$ inch long; $5/16$ inch broad: ac-r-shaped, stout, firmly embedded; beak short, stout, blunt, yellow with brown tip; chalazal rudiment very small depressed oval; embryo lateral like cord ending abruptly. Grown at varietal collection vineyard, Arlington Farm, Virginia.

LINDMAR

(Lab. Vin.)

- ORIGINATED BY: T. V. Munson, Denison, Texas.
- PARENTAGE: Lindley X Martha.
- VINE: Vigorous, robust, bushy, climbing, dense, trunk strong, stout, fair productiveness.
- YOUNG WOOD: Canes stout, round flattened, medium hard, bark thick rough knotty, dark red brown, spotted nodes darker, short supple pubescence; internodes long, thick, nodes normal, pith medium large discontinuous at medium concave diaphragm, many large lenticels, tendrils discontinuous forked, trifid; buds large prominent medium round, pointed, start early, growing tip light yellowish green, white tomentum.
- LEAF: Petiole 4 in. long, medium slender, rough, hairy, flat, dark yellowish green carmine striped, blade length 6 in. breadth 6 in. thin flexible, parchment like, 5 pointed, 5 cleft, 5 lobed; petiolar sinus medium in depth and width, terminal lobe acute, margin serrate, midrib $4\frac{1}{2}$ in. long, depressed heavy straight, light greenish abundant rusty, pubescence, compact in tufts. Upper surface smooth to finely rugose, depressed, dull dark green; lower surface smooth light green, abundant rusty floccose pubescence.
- FLOWERS: Abundant, medium early, stamens reflex.
- CLUSTERS: Peduncle $1\frac{1}{2}$ in. long, medium stout woody, dark yellow green; comb single $3 \times 3\frac{1}{4}$ in.; 35 berries, medium compact, irregularly cylindrical, irregular taper; prominent single shoulder, pedicel length 5 m.m. stout warty green; distal end large, constricted, brush short bundles few, greenish, adhere to pedicel.
- BERRY: Berry $5/8 \times 5/8$ globose, adherence medium, parts from pedicel splitting part of skin; basal markings small regular russet ring with rays; apex markings distinct small star; skin tender medium thin smooth pulpy, translucent, uniform, dull light yellow green, not an attractive grape as regards color, many prominent russet blotches; flesh pearly pulpy juicy soft, parts freely from skin; good quality, sweet, sprightly acid flesh, pronounced foxy aroma; ripens midseason.
- SEEDS: 1-2. length 7 m.m. breadth 4 m.m. pear-shaped, parts readily from pulp, beak defined short, blunt, narrow, chalaza depressed, very rudimentary; raphe depressed very rudimentary.

Grown at Varietal Collection Vineyard, Arlington Farm, Va.
Pruned to canes, trained to Modified Munson System.

LINN

(Lab)

ORIGINATED BY: P. B. Crandel, Ithaca, N. Y. 1890

PARENTAGE:

VINE: Of excellent vigor, upright, robust, climbing, dense; trunk very stout, strong, not a good producer here.

YOUNG WOOD: Canes medium slender, round, hard, bark thick rough, corrugated, pubescence short supple floccose; dark brown few stripes, internodes thick, medium length; nodes normal, pith medium, size discontinuous at thick concave diaphragm, buds large prominent, rounded start early.

LEAF: Petiole $3\frac{1}{2}$ in. long; medium stout rough flocculent, curved lignous, light yellowish, carmine striped; base enlarged drops with blade; blade 6 inches long $5\frac{1}{2}$ inches broad, thick, flexible parchment like, ovate or broadly cordate, folded evenly, entire to 5 lobed; petiolar sinus medium deep, broad; terminal lobe acute; margin serrulate, midrib 4 in. long; prominent even straight heavy; dark yellowish, abundant rusty, loose, fluffy pubescence, downy at the forks. Upper surface coarsely rugose, even between veins, dull dark green with metallic sheen, scant rusty pubescence, lower surface rugose, light yellowish green, abundant rusty floccose pubescence.

FLOWERS: Abundant, open early.

CLUSTER: Peduncle $1\frac{1}{2}$ inch long, medium stout, woody, light green. Comb single $2\frac{1}{2}$ x 1 in. 35 berries; compact, form nearly regularly conical, gradual regular taper, prominent single shoulder; pedicel length 3 m.m. medium stout, warty, reddish distal end large constricted; brush very short, bundles few loose greenish, adhere to pedicel.

BERRY: $5/8$ x $5/8$ in. globose to oblate; adherence medium, parts from pedicel freely; basal markings regular russet ring, apex markings indistinct, very small depressed scar. Skin tender, thick pulpy, transparent, uniform dull light green; flesh light green, pulpy parts freely, soft, juicy quality very good, sweet slightly acid pulp, distinct foxy aroma; ripens medium late.

SEED: 3-4 length 7 m.m. breadth 4 m.m. pear-shaped, parts readily from pulp; beak defined, short, narrow, chalaza depressed in center, small wide oval, prominent at edges, rather protuberant from beak to apex.

Grown at Varietal Collection Vineyard, Arlington Farm, Va.
Pruned to canes, trained on Modified Munson System.

LINN (Lab.)

Originator: P. B. Crandall, Ithaca, N.Y. about 1890.

Parentage:

Vine: Vigorous, upright, slender, straggling open; root soft, fleshy, thick, long, moderately penetrating; stump strong; trunk strong, slender.

Young Wood: Canes slender, round, medium texture; bark thin smooth, dark brown striped, nodes darker; internodes medium length, thin; nodes enlarged; pith medium size, discontinuous at medium size concave diaphragm, lenticels medium size, round; tendrils intermittent forked; color similar to cane; buds medium size, prominent, rounded, start midseason, growing tips light reddish, hairy.

Leaf: Petiole length $4\frac{1}{2}$ in., slender, smooth, hairy, flat; vinous red striped; base enlarged drops with blade; blade length 6 in., breadth $4\frac{1}{2}$ in.; thin parchment like, narrowly peltate, folded evenly, depressed along midrib; three pointed, slightly three lobed; petiolar sinus deep, narrow; terminal lobe acuminate, margin serrate; midrib $4\frac{1}{2}$ in. long, depressed, light, straight, transparent, light greenish, pubescence white, abundant, loose, fluffy in tufts at forks; upper surface rugose, finely wrinkled between veins, dull dark green, abundant white pubescence; lower surface lighter, rugose, abundant white floccose pubescence.

Flowers: Abundant, medium size, perfect, open midseason.

Cluster: Peduncle length 1 in., slender, wiry, light brown, comb single compact, $2 \times 4\frac{1}{2}$ in., wt. $\frac{1}{4}$ lb., berries 40, nearly cylindrical, gradual taper, no shoulder, pedicel length $\frac{1}{4}$ in., slender, warty, green; distal end medium, without constriction, brush long, bundles few, compact, greenish, adhere to pedicel.

Berry: $\frac{1}{2} \times \frac{1}{2}$ in. globose; adherence good; basal markings large regular russet ring; apex markings medium protruding dot; skin smooth, transparent, dull green, uniform at base, many prominent brown dots; flesh green pulpy, soft, juicy; juice white, very good quality foxy flavor, indistinct aroma; very good keeping midseason table grape.

Seeds: 4, length 6 mm., breadth 4 mm. elongated, part readily from pulp; beak short, narrow, defined; chalaza prominent small oval; raphe depressed ending abruptly in chalaza.

Grown at Chico Varietal Vineyard, Chico, California. Pruned to canes and spurs, trained to stakes.

B 1, R 5, V 35,36

Described by

F. L. HUSMANN AND E. SNYDER, 1916

IWD 1928

LITTLE PLUM

(Lab. Vin. Test)

- ORIGINATED BY: A. J. Caywood, Marlboro, N. H. 1888.
- PARENTAGE: Unknown.
- VINE: Upright, robust, climbing, dense, ^{mod}very vigorous.
- YOUNG WOOD: Canes medium size round, hard, bark thick, smooth, dark red brown, interlodes medium length, thick, nodes normal, with small discontinuities at thick concave diagonal grain; tendrils intermittent, forked similar in color to cane; buds medium, prominent, rounded, pointed, short midvein; growing tip dark green, reddish flush, glabrous.
- LEAF: Petiole 3 in. long, medium slender, rough, curved, lignous, dark yellowish, violet at base; base enlarged drops with blade; blade 7 x 6 inches, thin, flexible, archment like, broadly cordate, 3 pointed, slightly 3 lobed, petiole sinus medium, deep broad, terminal lobe acute, margin serrate, teeth very shallow, midrib 5 inches long, light, depressed at base, curved at tip, light yellowish; pubescence, scant, loose, russet. Upper surface coarsely rugose, convex between the veins; dark glossy green. Lower surface light yellowish, rugose, pubescence abundant, floccose rusty. Flowers abundant, partly fertile, open medium late. Stamens reflex.
- CLUSTER: Peduncle 3/4 inch. long, slender, wiry dark yellow green. Comb single, 1 1/2 x 4/5 inches, 45 berries, compact, ~~irregularly globose~~, abrupt irregular taper; pedicel 1/4 in. long, medium stout, warty, green, distal end medium size, constricted, brush long, bundles few, loose, adhere to pedicel, yellowish.
- BERRY: 5/8 x 1/2 oblong to obovoid; effluence medium, parts from pedicel freely, basal markings small irregular ring, apex markings small depressed scar, distinct, skin tender, thin, smooth, warty, uniform purple black, few prominent russet dots. flesh light greenish, parts freely from the skin, watery soft juicy, pulpy, excellent, sweet, vinous, medium early shells when ripe.
- SEEDS: 1-2; length 1/4, breadth 5/16, ear-shaped, stout, parts readily from pulp; beak defined short, blunt, narrow; chalaza small oval, apparent, wide, shallow grove over apex; radicle depressed rudimentary.

Grown at Varied Collection Vineyard, Arlington, Virginia. Pruned to canes, trained on Modified Warren System.

LONG JOHN

(Linc. Lab. Vin.)

ORIGINATED BY T. V. MUNSON, Dennison, Texas.

PARENTAGE: Big Berry X Triumph

VINE: Very vigorous, bushy, robust, creeping, dense, root soft, fleshy, thick, long, moderately penetrating, stump strong, trunk strong slender.

YOUNG WOOD: Canes slender round hard, bark thin smooth, brown, striped, nodes darker, internodes thin, nodes flattened; pith medium size discontinuous at medium size concave diaphragm; lenticels medium size round, tendrils intermittent forked; buds small, prominent, pointed start midseason, growing tips reddish, hairy.

LEAF: Petiole length $2\frac{1}{2}$ in. slender, smooth, hairy lying flat vinous red striped; base enlarged drops with blade, blade length 6 in. breadth 6 in. thick parchment like, orbicular, folded evenly depressed along midrib, 3 pointed slightly 3 lobed; petiolar sinus deep narrow overlapped, terminal lobe rounded, margin dentate, midrib 4 in. long, depressed, light straight, transparent, light greenish pubescence white, abundant, loose, fluffy in tufts at the forks, primary veins similar to midrib, upper surface rugose finely wrinkled, dark green, scant white pubescence; lower surface lighter, rugose, abundant white floccose pubescence.

FLOWERS: Few, medium size perfect, open midseason.

CLUSTERS: Peduncle length 1 in. slender, wiry, dark red, comb $3\frac{1}{2} \times 7\frac{1}{4}$; wt. $1/4$; 30 berries, single loose, nearly conical irregular taper, slight single shoulder, pedicel length $1/4$ in. stout, warty, green, distal end medium without constriction, brush long, bundles few, loose reddish, adhere to pedicel.

BERRY: $3/4 \times 1/2$, obovoid, adherence very good, basal markings large regular russet ring, apex markings medium size protruding dot, skin tough, thin, smooth translucent, dull black uniform at base; flesh pearly, pulpy, firm meaty, juice red, poor quality, foxy flavor, indistinct aroma, very good keeping midseason table grape.

SEEDS: 4 length 6 m.m. breadth 4 m.m. pear-shaped stout part readily from pulp, beak defined, short stout, narrow, chalaza, prominent large oval, raphe depressed ending abruptly in chalaza.

GROWN At: Varietal Vineyard, Chico, California. Pruned to spurs, trained to stakes.

B 1, R 5, V. 29, 30.

Described by

F. L. Husmann & E. Snyder, 1916.

LORETTO

(Linc. Lab.)

- ORIGINATED BY: Max Lahner, Sr., Lenexa, Kansas.
- PARENTAGE: Seedling of Neosho, apparently crossed with Concord.
- VINE: Vigorous, upright, robust, dense, trunk strong, productiveness excellent.
- YOUNG WOOD: Canes stout, round, medium hard, bark very thick rough, knotty; dark red brown, darker stripes internodes medium long, thick; nodes enlarged; pith medium large, discontinuous at very thick concave diaphragm, many small, dark brown lenticels, tendrils intermittent forked; buds medium size flattened, pointed start medium early; growing tip light green, reddish flush, glabrous.
- LEAF: Petiole length 4 in. medium stout, rough, hairy, lying flat, dark yellowish, vinous red, striped, blade length 6 in. breadth 6 in. thick, flexible, orbicular or broadly cordate, folded irregularly, undulating, 3 pointed, slightly to deeply 3 lobed; petiolar sinus medium in width and depth, terminal lobe acuminate, margin unevenly dentate, midrib 5 in. long, light, even, depressed curved, light yellowish green, scant russet pubescence, felty down at fork. Upper surface rugose, finely wrinkled, convex, uneven between veins, dull dark green, pubescence scant; lower surface rugose light yellowish green, rugose, abundant rusty floccose pubescence.
- FLOWERS: Abundant, open medium early, stamens upright.
- CLUSTER: Peduncle 2 in. long, slender wiry, light brown, and green, comb single; 4 x 1 in.; 50 berries, medium loose, regularly cylindrical, abrupt regular taper, prominent single shoulder; pedicel 1/4 in. long, slender warty green; distal end medium small constricted, brush short, bundles few compact yellowish, adhere to pedicel.
- BERRY: 1/2 x 1/2 in. globose, adherence medium, part from pedicel freely, basal markings regular russet and red, pentagon, pointed apex markings small indistinct protruding dot. Skin medium tough and thin, pulpy, smooth, translucent, dull dark purple black, light blue bloom few not prominent white dots; flesh light greenish, tough soft juicy, parts freely from skin; very good quality, sweet, sprightly, aromatic.
- SEEDS: 2. length 3/16, breadth 1/8, elongated, firmly embedded, beak defined short narrow, chalaza rudimentary small oval; raphe a thread like cord merging into chalaza. Grown at Varietal Collection Vineyard, Arlington Farm, Virginia. Pruned to canes, trained to Modified Munson System.

Described by I.W.Dix, 1927.

LUSE

ORIGINATED BY:

PARENTAGE:

VINE: Very vigorous, bushy, robust, dense, trunk strong, stout, very productive.

YOUNG WOOD: Canes stout, round, hard, bark thick rough, light gray brown, striped, spotted, nodes darker, internodes thick, medium long; nodes enlarged, flattened, pith large discontinuous at thin concave diaphragm, many brown lenticels; tendrils, continuous forked, buds medium large, prominent, flattened, start early, growing tip dark yellowish green, white tomentum.

LEAF: Petiole length $2\frac{1}{2}$ in. medium stout rough, hairy, lignous light yellowish, violet striped; blade length 6 in. breadth 5 in. medium thick, flexible, depressed along midrib, nearly entire to slightly 3 lobed; petiolar sinus medium shallow, narrow, terminal lobe acute, margin serrulate, midrib $4\frac{1}{2}$ in. long, light, straight, depressed, dark yellowish green, abundant loose rusty white pubescence. Upper surface rugose coarsely wrinkled, dark green, metallic sheen; lower surface rugose, yellowish green, pubescence abundant rusty minutely hirsute.

FLOWERS: Abundant, open early, stamens upright.

CLUSTERS: Peduncle $1\frac{1}{2}$ in. long slender wiry, dark yellowish brown, comb single 3 x 1 in. 50 berries, medium compact, regularly cylindrical, abrupt taper, slight single shoulder, pedicel length $1/8 - 1/4$ in., medium slender warty, green, brown spots; distal end medium, constricted; brush long; bundles few, compact, greenish, shatter with berry.

BERRY: $1/2 - 5/8$, globose, adherence medium, parts from pedicel freely, basal marking regular pentagon, brown with green showing through, apex marking small brown blotch. Skin medium tender thin, smooth translucent, dull uniform light green; flesh greenish pulpy, parts freely soft, meaty; Very good quality sweet sprightly, pronounced vinous aroma.

SEEDS: 3; length $1/4$ breadth $3/16$ elongated, distended stout, parts readily from pulp; beak strong blunt, thick; chalaza depressed, very rudimentary; raphe very rudimentary a thread-like cord ending abruptly.

Grown at Varietal Collection Vineyard, Arlington Farm, Va.
Pruned to canes, trained to Modified Munson System.

Described by

I. W. Dix, 1928.

LIVINGSTON

(Lab. Vin.)

- ORIGINATED BY: John C. Wheaton, Dansville, Livingston Co., N.Y.
 PARENTAGE: Supposed to be a seedling of Wilder or Arminia.
 VINE: Vigorous, robust, creeping, open, root soft, fleshy strong, long, moderately penetrating, stump very vigorous, trunk strong stout.
- YOUNG WOOD: Slender, round, hard, bark thin smooth, dark red striped, nodes darker, pubescence short supple internodes long thin, nodes enlarged; pith large discontinuous at medium size concave diaphragm, lenticels medium size round, tendrils intermittent forked, buds medium size prominent, pointed, start early, growing tip light reddish hairy.
- LEAF: Petiole length $3\frac{1}{2}$ in. slender, smooth, hairy flat, vinous red striped, base enlarged drops with blade length 6 in. breadth $5\frac{1}{2}$ in. thin parchment like, broadly cordate, folded evenly, depressed along midrib, 3 pointed, 3 cleft, 3 lobed, petiolar sinus deep narrow overlapped, terminal lobe acute, margin serrate, midrib 4 in. long depressed even light transparent, light red, scant loose, white pubescence, patchy in tufts at forks, primary veins similar to midrib. Upper surface smooth, finely wrinkled between veins, scant white pubescence; color dull dark green, lower surface rugose, lighter, abundant white floccose pubescence.
- CLUSTER: Flowers abundant medium size, perfect, open early. Peduncle length 2 in. slender, wiry, dark brown, comb $2\frac{1}{2}$ x 6 in. wt. $\frac{1}{4}$ lb. berries 45, single compact, nearly cylindrical, gradual taper, no shoulder, pedicel length $\frac{1}{4}$ in. stout warty green, distal end large without constriction, brush long, bundles many, reddish, loose adhere to pedicel.
- BERRY: $\frac{1}{2}$ x $\frac{1}{2}$ in. globose, adherence very good, basal markings medium, regular russet ring, apex markings medium protruding dot, skin tough, thick smooth, translucent dull purple black uniform at base, flesh greenish pulpy firm meaty, juice reddish poor quality foxy flavor, indistinct aroma, very good keeping table grape early.
- SEEDS: 4 length 6 m.m. breadth 4 m.m. pear-shaped beak defined short stout, blunt, chalaza slightly prominent small, oval, raphe, depressed merging into chalaza.

Grown at Chico Varietal Vineyard, Chico, California. Pruned to canes and spurs, trained to stakes.

MARGUERIETE

(Linc. Bourq.)

- ORIGINATED BY: T. V. Munson, Denison, Texas, 1886.
- PARENTAGE: Secundo X. Herbemont
- VINE: Very vigorous bushy, robust, climbing, dense, trunk very stout, strong, fair producer.
- YOUNG WOOD: Canes stout, round, medium soft, bark very thick rough, light yellow green, brown striped spotted, short very stiff pubescence; internodes very long, thick; nodes normal flattened; pith large discontinuous at thick concave diaphragm; tendrils intermittent forked; buds medium, prominent pointed, start midseason; growing tip medium dark green, slightly tomentose.
- LEAF: Petiole $2\frac{1}{4}$ inch long, medium stout, rough, hairy, curved, light yellowish green, blade length 5 inches, breadth $5\frac{1}{2}$ inches, thin, flexible, parchment like, folded irregularly, undulating, 3-5 pointed, slightly 3-5 lobed; petiolar sinus medium in depth and breadth; terminal lobe acute to obtuse; margin serrulate; midrib 4 in. long, light depressed curved, greenish; scant loose white pubescence; Upper surface smooth, even between the veins, wrinkled, dull dark green; lower surface rugose light green, scant white floccose pubescence.
- FLOWERS: Abundant, open medium late, stamens upright.
- CLUSTERS: Peduncle $1-1\frac{1}{2}$ in. long, slender, wiry, dark yellow green. Comb single, 3 x 1 in; 70 berries, irregularly cylindrical, abrupt irregular taper, very compact, slight single shoulder, pedicel length 3 m.m. slender warty green, distal end constricted, medium small brush short, bundles few yellowish, compact adhere to pedicel.
- BERRY: Berry $3/8$ x $3/8$ globose, adherent, parts from pedicel splitting part of skin; basal markings small irregular russet ring, apex markings small indistinct protruding dot; skin thin tough smooth, very dark glossy uniform purple black; flesh light greenish pulpy juicy, meaty, juice pink; quality very good sweet sprightly, not a table grape, ripens late.
- SEEDS: 1-3; length 5 m.m. breadth 4 m.m. oblate, parts readily from pulp; beak short pointed; chalaza prominent wide oval, raphe a protuberant thread-like cord merging into chalaza.

Grown at Varietal Collection Vineyard, Arlington Farm, Va.
Pruned to canes, trained to Modified Munson System.

GRAPES

(Line. Pub. Lib. Amer. Vin)

- ORIGINATED BY: T. V. Munson, Denison, Texas, 1898.
PARENT GR: America v Delaware
VINE: Very vigorous, upright bushy dense, trunk strong, stout;
poor producer here.
YOUNG WOOD: Canes stout, flattened, medium soft, light gray brown,
red striped, black spotted; bark very thin, rough
internodes medium length, thick, nodes normal, with
large discontinuous at very thin concave diaphragm;
tendrils intermittent ferried; buds medium large,
prominent, rounded, pointed, start early, growing
till light green glabrous.
LEAF: Petiole 4 inches long, slender medium smooth glabrous,
lying flat, light yellowish, without red striped;
blade length 5 inches, breadth 4 inches, thin flexible
parchment like; broadly cordate, 3 pointed slightly
3 lobed; petiolar sinus medium shallow and medium narrow;
terminal lobe acuminate, margin serrulate, midrib
4 inches long, prominent even, straight, light, rarely,
abundant, dense, rusty pubescence, minutely hirsute.
Upper surface nearly smooth wrinkled at lateral sinuses,
dull dark cedar green, lower surface light green smooth
glaucous.
FLOWERS: Many, open midseason, stems upright.
CLUSTER: Peduncle length 1/2 inch. medium stout woody, dark
green; corb single, medium compact 4 x 1 1/2 inches.
50 berries form regularly cylindrical, regular abrupt
taper, slight single shoulder, pedicel length 1/8 in.
medium slender warty, green, distal end constricted,
medium large, brush short, bundles many, reddish,
loose, adhere to pedicel.
BERRY: 1/2 x 1/2 in. glabrous, adhering, parts from pedicels
splitting part of skin; basal markings, irregular
russet pentagon with red inner ring. Apex markings
large depressed blotch. Skin tender, thin, pulpy,
very dark glossy purple black, blue bloom, few not
prominent white dots; flesh pearly pulpy, parting
freely, soft meaty juicy, sweet pleasing; ripens
just after Concord.
SEEDS: 3-4, 3/16 in. long, 1/8 in. broad, elongated pear-shaped,
light brown, part readily from pulp; back defined,
short narrow, light brown, chalazal small depressed oval,
rudimentary; raphe a thread like cord merging into
chalazal.

Grown at Varietal Collection Vineyard, Arlington Farm,
Virginia. Pruned to canes, trained on modified Munson
System.

MERRIMAC

(Lab. Vin.)

Roger's 19

- ORIGINATOR: E. S. Rogers, Salem, Mass. 1856.
- PARENTAGE: Carter X Black Hamburg.
- VINE: Vigorous, bushy, robust, dense, root soft, fleshy, thick long, moderately penetrating, stump vigorous, trunk strong slender.
- YOUNG WOOD: Canes slender, round, hard, bark thin, smooth, light brown striped, nodes darker, pubescence short, supple, internodes short, thin, nodes enlarged; pith medium size, discontinuous at medium size concave diaphragm; lenticels medium, round, tendrils intermittent, forked, color similar to cane; buds small prominent pointed start midseason, growing tips green, hairy.
- LEAF: Petiole length 5 in. slender, smooth, hairy, flat, vinous red striped; base enlarged drops with blade, blade length 7 in. breadth 6 in. thin parchment like, broadly peltate, folded evenly, depressed along midrib, 3 pointed slightly 3 lobed, petiolar sinus deep, narrow overlapped, terminal lobe acuminate; margin dentate, midrib $5\frac{1}{2}$ in. long, light depressed, straight, transparent, light greenish, pubescence scant, white, loose fluffy in tufts at forks, primary veins similar to midrib, upper surface smooth, finely wrinkled between veins, dull dark green, scant white pubescence; lower surface rugose, lighter, abundant white floccose, pubescence.
- FLOWERS: Large, perfect, open midseason.
- CLUSTER: Peduncle length $1\frac{1}{2}$ in. slender wiry light brown, comb single medium compact, $2\frac{1}{2}$ x 5 in. Wt. $\frac{1}{4}$ lb. 25 berries, nearly conical taper irregular, slight single shoulder, pedicel length $\frac{1}{4}$ in. stout, warty green, distal end large without constriction brush long, bundles few, compact, green, adhere to pedicel.
- BERRY: $\frac{3}{4}$ x $\frac{7}{8}$, oblong, adherence good; basal markings large regular russet ring, apex markings large protruding dot, skin tough, thick, smooth, translucent dull dark red uniform at base; many reddish dots, not prominent, flesh greenish, pulpy firm meaty; juice white, excellent quality, foxy flavor, indistinct aroma; very good keeping midseason grape for table and culinary juice.
- SEEDS: 4. length 9 m.m. breadth 4 m.m. elongated, stout, parts readily from pulp, beak defined, stout, strong; chalaza prominent small oval, raphe depressed.

Grown at Chico Varietal Vineyard, Chico, California.

Pruned to canes and spurs, trained to stakes.

Described by

MARY FAVORITE

- FROM: J. T. Coffin, Westland, Indiana, 1889
- PARENTAGE: Chance seedling, found near where Delaware and one of Roger's Hybrids were growing.
- VINE: Vigorous, bushy, slender, creeping dense, root soft, fleshy thick, long, moderately penetrating, stump strong, trunk strong, slender; productiveness poor.
- YOUNG WOOD: Canes slender round hard; bark thin, rough, dark red, striped, nodes darker; pubescence short supple; internodes long thin; nodes enlarged; pith medium discontinuous at medium concave diaphragm; lenticels medium, round; tendrils intermittent forked; color similar to cane; buds medium, prominent rounded, start early; Growing tip green hairy.
- LEAF: Petiole length 2 in. slender, smooth, hairy, flat, vinous red striped, base enlarged drops with blade; blade 6 inches long, breadth 5 inches, thick parchment like, cordate, folded evenly, depressed along midrib, 3 pointed slightly 3 lobed; petiolar sinus deep, broad; terminal lobe acuminate, margin dentate; midrib $4\frac{1}{2}$ in. long, depressed, light straight transparent, light greenish; abundant white pubescence, loose fluffy in tufts at forks; primary veins similar to midrib; upper surface finely rugose, wrinkled between veins, dark dull green; pubescence white scant; lower surface lighter, rugose, abundant white floccose pubescence.
- FLOWERS: Abundant, medium size perfect open early.
- CLUSTER: Peduncle length $1\frac{1}{2}$ in. slender, wiry, dark red, comb 2 x 4 in. wt. $1\frac{1}{4}$ lb. 35 berries, single compact, cylindrical, gradual taper, no shoulder, pedicel length $1\frac{1}{4}$ in. slender, warty green; distal end medium without constriction, brush long, bundles few reddish adhere to pedicel.
- BERRY: $1\frac{1}{2}$ x $1\frac{1}{2}$ in. globose, adherence very good; basal markings medium, regular russet ring; apex markings small protruding dot; skin tough, thick, smooth translucent, dull purple black, uniform at base; flesh pearly, pulpy, juicy, soft, juice red. very good quality, foxy flavor, indistinct aroma; good keeping early table grape.
- SEEDS: 4. Length 6 m.m. breadth 3 m.m. pear-shaped, beak stout, blunt, narrow, defined; chalaza prominent small oval; raphe depressed, merging into chalaza.

Grown at Chico Varreval Vineyard, Chico, California
Pruned to spurs, trained to stakes.

Described by

F. L. Husmann & E. Snyder.

B. 1 R 5 V. 37, 38

I.W.D.

1916.

MARY FAVORITE

(Lab. Vin.)

A seedling found by J. F. Coffin, Westland, Ind., near a trellis on which was trained. Delaware and one of Rogers' Hybrids. 1889.

- VINE: Vigorous, upright, climbing dense, trunk strong, medium size. Very productive here.
- YOUNG WOOD: Canes slender round, occasionally flattened, hard, bark thin, light brown spotted, short supple pubescence; internodes medium short, thin, nodes normal; pith small discontinuous at thick, concave diaphragm; tendrils continuous, intermittent, forked, buds medium small, prominent round, pointed, start early.
- LEAF: Petiole length 3 in. medium stout, smooth, hairy, light yellowish, carmine striped, many small brown dots; blade length 8 in. breadth $7\frac{1}{2}$ inches thick; flexible coreaceous, broadly cordate, folded irregularly, 3 pointed entire to slightly 3 lobed; petiolar sinus deep, closed to overlapped; terminal lobe acuminate; margin dentate, midrib $4\frac{3}{4}$ in. long, depressed, light, curved, straight, light yellowish, carmine at fork of veins on upper surface, abundant loose white pubescence. Upper surface finely rugose, coarsely wrinkled, depressed, uneven between veins, glossy, dark green, metallic sheen; lower surface yellowish green, rugose, abundant, rusty floccose pubescence.
- FLOWERS: Abundant, open early, stamens upright.
- CLUSTER: Peduncle $1\frac{1}{2}$ in. long, stout, woody, dark yellow green; comb single, $4 \times 1\frac{1}{2}$ in. 125 berries very compact, irregularly conical, irregular taper, prominent single shoulder; pedicel length 4 m.m. medium size, warty, green, distal end medium size, slightly constricted, brush short, bundles few, yellowish, loose, adhere to pedicel.
- BERRY: $5/8 \times 5/8$; globose, adherence very good, parts from pedicel freely, basal markings irregular russet pentagon, apex markings indistinct, small protruding dot. Skin tough thin pulpy smooth, uniform purple black heavy blue bloom, flesh light greenish, parting freely; quality ~~ring~~ good, sweet vinous sprightly, pronounced vinous aroma. ripens midseason.
- SEEDS: 3.7 m.m. long, 4 m.m. broad, pear-shaped, firmly embedded, beak defined, long, blunt, narrow, chalaza slightly prominent large oval, raphe depressed very rudimentary.

Grown at Varietal Collection Vineyard, Arlington Farm, Va.

R. 38. V. 7,8.

Described by

I. W. Dix, 1928.

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MRS. MUNSON
(Linc. Bourq.)

- ORIGINATED BY: T. V. Munson, Denison, Texas.
PARENTAGE: Neosho X Herbemont.
VINE: Of fair vigor, upright, slender, straggling, open trunk slender, fairly productive.
YOUNG WOOD: Canes slender, round, medium hard; bark medium thick rough, dark red brown, striped, spotted; internodes thin, short, nodes normal, pith medium, discontinuous at medium concave diaphragm; tendrils discontinuous intermittent forked; buds medium size, prominent, round start midseason.
LEAF: Petiole 1-3/4 in. long, slender, smooth, glabrous, light carmine, blade length 3 1/2 in. breadth 3 in. thin flexible, parchment, like, broadly cordate, folded irregularly, entire 3 pointed or slightly 3 lobed; petiolar sinus shallow, medium broad; terminal lobe acute; margin serrulate; midrib 2-3/4 in. long, light, straight, even, light greenish, carmine at base, scant white pubescence, loose, fluffy, Upper surface smooth, depressed between veins, light green, leaden; lower surface smooth, more or less yellowish green, scant white floccose pubescence.
FLOWERS: Abundant medium early, stamens upright.
CLUSTERS: Peduncle length 1/2 in. slender woody, light yellow brown; comb single 2-1/2 x 1 in. 50 berries; medium compact, irregularly conical, irregular gradual taper, slight single shoulder; pedicel length 4 m.m. medium size, warty, green, distal end medium, constricted; brush short, bundles few, compact, reddish, shatter with berry.
BERRY: 1/2 x 1/2 globose, adherence medium, parts from the pedicel freely, basal markings small, irregular russet ring; apex markings small indistinct protruding dot. Skin tender thin, pulpy, smooth, glossy dark purple black uniform at base; flesh pearly parting freely, soft, juicy, pink juice, quality very good, sweet sprightly, too small for table grapes, ripens late.
SEEDS: 3-4. length 4 m.m. breadth 3 m.m. subspherical parts readily from pulp; beak very short, narrow, pointed; chalaza small suborbicular, slightly prominent; raphe protuberant, ending abruptly in a thread-like cord.

Grown at Varietal Collection Vineyard, Arlington Farm, Virginia. Pruned to canes, trained to Modified Munson System.

MUENCH

(Line X. Bourq.)

- ORIGINATED BY: T. V. Munson, Denison, Texas, 1886.
PARENTAGE: Neosho X Herbemont.
VINE: Very vigorous upright, bushy, robust, straggling dense, trunk strong, stout, medium in productiveness.
YOUNG WOOD: Canes stout, round to slightly flattened, hard; bark thin, smooth, dark red brown, striped, nodes darker, internodes medium length, thick, nodes enlarged flattened; pith medium discontinuous at medium size concave diaphragm, many small light brown lenticels; tendrils intermittent forked, buds medium large, prominent rounded, pointed start early, growing tip light yellowish green, glabrous, lignous dark yellowish, vinous red flush; blade length 5 in. breadth 5 in. medium thin, flexible coreaceous, 3 pointed, slightly 3 lobed; petiolar sinus medium deep narrow; terminal lobe acute to obtuse; margin serrulate to crenate; midrib 3-3/4 in. long, light, depressed, straight, light yellowish green, pubescence scant, white in tufts at the forks. Upper surface finely rugose, wrinkled, convex even between veins, dull dark yellowish green; lower surface lighter green rugose, no pubescence.
FLOWERS: Flowers abundant, open medium early, stamens upright.
CLUSTER: Peduncle 1 1/2 in. long slender wiry olive green, comb single, 5 x 1 1/2 in. 100 berries, very compact, irregularly cylindrical, irregular abrupt taper, slight single shoulder, pedicel length 1/4 in., medium slender smooth green, distal medium size, constricted; brush short, bundles few compact, greenish, adhere to pedicel.
BERRY: Medium to above, globose, adhering, parts from pedicel splitting part of skin; basal markings small russet irregular pentagon. Apex markings distinct small blotch. Skin medium tough, thin, pulpy smooth uniform dark purple black, few prominent russet or white spots; flesh light greenish, meaty soft juicy, parts readily from skin, juice white; very good quality, sweet sprightly vinous; ripens medium late
SEEDS: 2. length 1/4 in. breadth 1/8 in. pear shaped parts readily from pulp; beak barely defined, short narrow; chalaza slightly apparent small oval, raphe a thread like cord merging into chalaza.

R. 16 V. 7,8

Described by

I. W. Dix, 1928

OLITA

(Lab. Vin. Bourq.)

Originator: T. V. Munson, Dennison, Texas. 1898.Parentage: Seedling of Delaware fertilized by Irving.Vine: Of good vigor, bushy, robust, dense; root soft, fleshy, strong, long, moderately penetrating; stump strong, trunk strong, stout. Productiveness very good.Young Wood: Canes stout, round, hard; bark thin, smooth, light brown striped, nodes darker; internodes short, thick; nodes enlarged; pith large discontinuous at thick concave diaphragm; lenticels medium round, tendrils intermittent, forked, color similar to cane; buds medium size, prominent, round, start midseason; growing tip green, hairy.Leaf: Petiole length 5 in., slender, smooth, hairy, curved, light red striped; base enlarged, drops with blade, blade length 7 in., breadth 6 in., thick parchment-like, peltate, folded evenly, depressed along midrib; 5 pointed, 3 cleft, slightly 5 lobed; petiolar sinus deep medium width; terminal lobe acute; margin dentate; midrib $4\frac{1}{2}$ in. long, depressed, light, straight, transparent, light greenish, abundant white pubescence, loose, fluffy, in tufts at forks; primary veins similar to midrib; upper surface smooth, finely wrinkled between veins, dull dark green, scant white pubescence; lower surface lighter, rugose; pubescence white, abundant, floccose.Flowers: Abundant, medium size, perfect, open midseason.Cluster: Peduncle length 1 in., stout, woody, light brown; comb $3\frac{1}{2}$ x 6 in., wt. $\frac{1}{4}$ lb., 65 berries, single, medium in compactness, nearly cylindrical, gradual taper, prominent single shoulder, pedicel length $\frac{1}{4}$ in., slender, warty, green; distal end medium without constriction; brush short; bundles few, greenish, compact, adhere to pedicel.Berry: $\frac{1}{2}$ x $\frac{1}{2}$, globose, adhering; basal markings medium, regular russet ring; apex markings medium, protruding dot; skin thin, tender, smooth, transparent, dull green, uniform at base, many prominent brown dots; flesh soft, juicy, greenish, parting freely; juice white; very good quality, foxy flavor, indistinct aroma; very good keeping midseason table and wine grape.Seeds: 4; length 6 mm., breadth 3 mm., pear-shaped, parts readily from pulp; beak defined, short, narrow; chalazae; prominent small oval; raphe depressed merging into chalaza.

Grown at Chico, Varietal Vineyard, Chico, California. Pruned to canes and spurs, trained to stakes.

PALMYRA

ORIGINATED BY:

PARENTAGE:

VINE: Vigorous, bushy, straggling, open, trunk strong, slender, productiveness medium.

YOUNG WOOD: Canes medium stout slender round, medium hard, bark very thick, rough, dark yellow green, brown spotted, nodes darker, short stiff pubescence; pith discontinuous at thick concave diaphragm; tendrils continuous, forked, buds medium size, prominent rounded, pointed, start early, growing tip light yellowish green, hairy, ribbed.

LEAF: Petiole $3\frac{1}{2}$ inches long, slender, smooth, glabrous, curved lignous, light yellowish; blade length $6\frac{1}{2}$ inches, width 6 inches, flexible parchment like, orbicular or oblate, 3 pointed, entire to 3 lobed, petiolar sinus deep, narrow to closed; terminal lobe acute, margin serrate; midrib 5 inches long depressed, prominent, even light, transparent, light yellowish green, pubescence scant, rusty, white, loose, downy at forks; Upper surface finely rugose, convex, dull dark green, lower surface light yellowish, abundant rusty white floccose pubescence.

CLUSTER: Peduncle length $1\frac{1}{2}$ inch; medium size, woody, dark yellow; comb single, $6 \times 1\frac{1}{2}$ inch; medium loose, irregularly cylindrical, gradual irregular taper; slight single shoulder; pedicel length 7 m.m. medium slender, warty, yellow green; distal end large, without constriction; brush short, bundles many, compact, yellowish, adhere to pedicel.

BERRY: Berry $5/8 \times 3/4$ in. globose to oblate, adherent parts from pedicel splitting part of skin; basal markings large regular russet ring; apex markings distinct, protruding blotch. Skin tough medium thick smooth pulpy, translucent uniform dark glossy red, thin blue bloom; flesh pearly pulpy juicy soft, parts freely from pulp, quality very good, sweet sprightly, ripens medium early.

SEEDS: 3-6, length 7 m.m. breadth 4 m.m. elongated, pear-shaped, firmly embedded, beak defined narrow, blunt, strong; chalaza slightly prominent oval; raphe protuberant ending abruptly in a thread-like cord.

Grown at Varietal Collection Vineyard, Arlington Farm, Va.
Pruned to canes, trained to Modified Munson System.

R-30, V 1-2

Described by

I. W. Dix, 1928.

PARAGON
(Lab. Vin.)

Originator: Chas. J. Copley, Stapleton, N. J.

Parentage: Seedling of Telegraph crossed with Black Hamburg.

Vine: Of good vigor, bushy, slender, straggling open; productiveness very good; root soft, fleshy, strong, thick, long, moderately penetrating; stump strong; trunk strong, slender.

Young Wood: Canes slender, round, hard; bark thin, smooth, brown, striped, nodes darker; internodes long, thin; nodes enlarged; pith medium, discontinuous at medium concave diaphragm; lenticels small, round; tendrils intermittent, forked; buds prominent, small, pointed, start midseason; growing tip greenish, hairy.

Leaf: Petiole length $2\frac{1}{2}$; slender, hairy, lying flat, dark red, striped, base enlarged, drops with blade; blade length 5 in., breadth 5 in., thin parchment-like, broadly cordate, folded evenly, depressed along midrib, 3-pointed, slightly 3-lobed; petiola sinus deep and broad, terminal lobe acute; margin dentate; midrib 4 in. long, depressed, light, straight, transparent, red; pubescence abundant, white, loose, fluffy, in tufts at forks; primary veins similar to midrib; upper surface smooth, finely wrinkled between veins, dull dark green; lower surface rugose, lighter, abundant white floccose pubescence. Flowers abundant, medium size, perfect, open midseason.

Cluster: Peduncle length 1 in., slender, wiry, dark brown; comb $2 \times 4\frac{1}{2}$ ins., stout, warty, green, wt. $\frac{1}{4}$ lb, 40 berries, single compact, nearly cylindrical, gradual taper no shoulder, pedicel length $\frac{1}{4}$ in., stout, warty; distal end large without constriction; brush long; bundles many, reddish, loose, adhere to pedicel.

Berry: $\frac{1}{2}$ to $\frac{5}{8}$, obovoid, adhering, basal markings medium, regular ring; apex markings medium, protruding dot; skin tough, thick, smooth, translucent, dull purple black, uniform at base, many prominent reddish dots; flesh greenish, pulpy, firm, meaty, juice pinkish; very good quality, foxy flavor, indistinct aroma; very good keeping midseason table grape.

Seeds: 4; length 6 mm., breadth 3 mm, pear-shaped, stout, parts readily from pulp; beak defined, short, stout; chalaza small depressed oval; raphe depressed merging into chalaza.

Grown at Chico Varietal Vineyard, Chico, California. Pruned to canes and spurs; trained to stakes.

B.1. R.6. V.25,26.

Described by

F. L. HUSMANN & E. SNYDER

PEABODY

(Rip. Lab. Vin)

- ORIGINATED BY: J. H. Ricketts, Newburg, New York, 1870
PARENTAGE: Seedling of Clinton.
VINE: Vigorous, bushy, upright, dense, trunks strong stout.
YOUNG WOOD: Canes stout, round to flattened angled.
Medium hard; bark very thick rough; light gray or brown, darker brown stripes, spotted, nodes darker, gray bloom on well ripened canes; internodes medium long, thick, nodes normal; pith medium size discontinuous at thick concave diaphragm; numerous small dark brown lenticels; buds large, prominent, rounded, start early. Growing tip dark red glabrous.
- LEAF: Petiole 3 in. long, medium stout, smooth, ~~lying flat~~, light yellowish green, violet striped, blade length 7 in. breadth $6\frac{1}{2}$ in. thin flexible parchment like, 3 pointed, 3 to 5 lobed; petiolar sinus medium in depth and breadth terminal lobe acuminate margin incised dentate, midrib $5\frac{1}{2}$ in. long, light straight, even depressed, yellowish green; no pubescence. Upper surface coarsely wrinkled, convex uneven between veins, dull dark yellowish green; lower surface rugose, light green, no pubescence.
- FLOWERS: Abundant, open early, stamens upright.
CLUSTER: Peduncle $2\frac{1}{2}$ in. long, slender, wiry, olive green, comb single, $4 \times 1\frac{1}{2}$ in. 80 berries; form irregularly cylindrical; irregular abrupt taper; slight single shoulder, pedicel length $1/4$ in. medium slender, smooth, green, distal end medium size constricted; brush short, bundles few compact reddish adhere to pedicel.
- BERRY: Size $1/2 \times 1/2$ in. globose, adhering, ~~shatter~~ somewhat when fully ripe, parts from pedicel splitting part of skin, basal markings small irregular red ring; apex markings, medium size protruding blotch. Skin medium tough, thick, pulpy, smooth, translucent uniform dull dark purple black; flesh pearly ~~pulpy~~, juicy, soft, meaty; Very good quality, sweet sprightly vinous, ripens very early.
- SEEDS: 2-3, length $1/4$ in. breadth $1/8$ in. elongated, parts readily from pulp; beak defined short narrow; chalaza large oval, slightly apparent; raphe a protuberant thread like cord.

Grown at Varietal Collection Vineyard, Arlington Farm, Virginia. Pruned to canes, trained to Modified Munson System. R 15, V. 3, 4.

Described by

I. W. Dix, 1928.

PIERCE
(Lab. Vin.)

ORIGINATED BY: J. M. Pierce, Santa Clara, California, 1882.
PARENTAGE: Bud sport of Isabella
VINE: Vigorous, climbing, robust, dense, trunk medium stout, strong, uncertain in productiveness. Canes medium stout, flattened, texture medium hard; bark thick rough, light reddish gray, striped, spotted, internodes short, thick, nodes normal, pith large discontinuous at plain thin diaphragm; tendrils intermittent forked; buds large prominent rounded pointed, start early.

LEAF: Petiole length $2\frac{1}{2}$ in. stout, smooth tomentose, curved light yellowish, violet striped; blade length 7 in. breadth 7 in. thick coreaceous, orbicular, broadly cordate, folded conically, depressed along midrib, 5 pointed, 3 cleft, 3-5 lobed, petiolar sinus deep, narrow to closed, terminal lobe acute, margin dentate; midrib 5 in. long, heavy, depressed straight, yellowish, abundant rusty, pubescence, loose, fluffy.

Upper surface finely rugose, coarsely wrinkled, depressed uneven between veins, dull dark green; lower surface more or less yellowish, rugose; abundant rusty floccose pubescence.

FLOWERS: Few, open early, stamens upright.
CLUSTER: Peduncle $1\frac{1}{2}$ in. long, stout woody, dark yellow green, compact, regularly conical; regular abrupt taper, single shoulder; comb single 4 x 1 in. 35 berries. Pedicel length $1\frac{1}{4}$ in. stout warty, dark green; distal end large constricted; brush long, bundle many compact greenish, adhere to pedicel.

BERRY: $7\frac{7}{8}$ to 1 in. obovoid to globose, basal markings large, irregular russet ring, rays, apex markings large distinct scar, depressed in center. Skin medium tough, medium thin, pulpy, smooth translucent, uniform very dull dark purple black, few prominent russet stripes and blotches. Very good quality, slightly foxy sweet aromatic, ripens late.

SEEDS: 1-2. length $1\frac{1}{4}$ in. breadth $3\frac{3}{16}$ in. pear shaped, distended, stout, parts readily from pulp; beak defined short stout blunt, chalaza very rudimentary, small depressed; raphe very rudimentary depressed.

Grown at Varietal Collection Vineyard, Arlington Farm, Virginia. Pruned to canes, trained to Modified Munson System. R- 38 -V. 5,6.

Described by

I. W. Dix 1928.

PRESIDENT

(Lab. Vin)

- ORIGINATED BY: T. V. Munson, Denison, Texas, 1880
- PARENTAGE: Seedling of Herbert
- VINE: Very vigorous, upright, robust, dense, trunk stout, strong, bears a very good crop.
- YOUNG WOOD: Canes stout, round, medium hard, bark thick, rough, dark brown striped, many small spots, flocculent, pubescence; internodes medium short, thick, nodes normal; with medium size discontinuous at medium, concave diaphragm; tendrils intermittent forked; buds medium prominent, rounded pointed, start midseason, growing till light yellowish green with rusty tomentose.
- LEAVES: 2 1/2 in. Petiole, medium stout hairy, curved lignous, yellowish, violet striped, blade length 5 1/2 in. breadth 5 1/2 in; orbicular or broadly cordate, folded evenly, nearly entire to 5 pointed, slightly 3 lobed, petiole or sinus medium in depth and breadth; terminal lobe acute; margin serrate, unequal, midrib 5 1/2 in. long, prominent, light, curved, pubescence abundant, rusty, loose, fluffy. Upper surface smooth, uneven between veins, depressed, dull cedar green; lower surface smooth, yellowish green abundant rusty floccose pubescence
- FLOWERS: Abundant, open early, stems upright.
- CLUSTERS: Peduncle 1/2 in. long, stout woody, brown, canes single compact, 5 x 1 in. Berries 35, form irregular, conic 1, taper abrupt, irregular, slight single shoulder; pedicel 1/4 in. long, green, stout, hairy, distal end large constricted; brush short, bundles reddish, few, loose, adhere to pedicel.
- BERRY: 3/4 x 3/4 in. Obovoid or globose, adheres well, parts from pedicel splitting part of skin, basal markings, small irregular russet ring, such markings, small indistinct protruding dot. Skin medium tender and thick, sulcy smooth, uniform dull dark purple black, few prominent russet dots, flesh light greenish, pulpy, parts freely, soft, juicy, clear juice, quality very good, sweet at skin, slightly acid pulp, slightly tony; ripens just before Concord.
- SEEDS: 2-3, length 5/16 breadth 1/8, crescent-shaped stout slightly flattened; both short, strong, blunt, chalazal rudimentary, small depressed oval; raphe depressed. Grown at Vitis Collection Vineyard, Arlington Farm, Va.

PUCKWANA ?

(Mont. Rûp.)

- ORIGINATED BY: T. V. Munson, Denison, Texas.
PARENTAGE: Monticolor X Rupestris.
VINE: Fairly vigorous, upright, slender, straggling, open trunk strong slender.
YOUNG WOOD: Canes slender, flattened, angled, medium hard, bark thick, rough, dark red brown striped spotted; internodes medium length, thick; nodes normal size, flattened, pith medium, discontinuous at thick plain diaphragm; tendrils intermittent, forked; buds medium small, rounded, pointed, start midseason.
LEAF: Petiole 2 in. long, medium slender, smooth, glabrous curved yellowish, vinous red striped; blade $3\frac{1}{2}$ inches long; 4 inches broad, thin flexible parchment like uniform, folded conically, depressed along midrib, 3 pointed, entire to slightly 3 lobed; petiolar sinus broad, shallow; terminal lobe acuminate, margin undulate, serrulate, midrib 2-3/4 in. long, light even, depressed, straight, light yellowish scant white pubescence, filty down at forks. Upper surface finely rugose, coarsely wrinkled depressed, uneven between veins, light glossy green; lower surface light yellowish green, rugose, scant white floccose pubescence.
FLOWERS: Few, open midseason, stamens reflex.
CLUSTER: Peduncle 1/2 in. long, medium stout, woody, olive green; comb single; 1 x 3/4 in. 15 berries; compact, nearly globose, abrupt irregular taper; no shoulder; pedicel 5 m.m. stout, warty, yellow, distal end large, constricted; brush none or short, bundles few, loose yellowish.
BERRY: 5/8 x 5/8 globose, adhering, parts from pedicel splitting part of skin; basal markings medium size regular russet ring; apex markings distinct small protruding blotch. Skin medium tough, thick pulpy, smooth, glossy black, blue bloom; flesh pearly, pulpy, soft juicy; juice pink, fair quality sweet at skin, acid at seeds, somewhat astringent, ripens late.
SEEDS: 3-4, length 6 m.m. breadth 5 m.m. subspherical stout, parts readily from pulp; beak short blunt, narrow at tip; chalaza small, depressed oval; raphe a protuberant cord ending at apex.

Grown at Varietal Collection Vineyard, Arlington Farm, Virginia. Pruned to canes, trained to Modified Munson System.

Described by

I. W. Dix, 1928.

RIGGS #16
(Lab. Bourq. Vin.)

ORIGINATED BY: J. W. Riggs, Waterloo, Kansas.
PARENTAGE: Seedling of Delaware.
VINE: Vigorous, upright, bushy, dense, stump strong, medium stout, good bearer.
YOUNG WOOD: Canes slender, round, medium hard, thick, rough, light brown, nodes darker; internodes medium short, thin, nodes normal; pith small, discontinuous at thick concave diaphragm; tendrils discontinuous forked; buds medium, prominent, rounded pointed; start early, growing tip light green glabrous.
LEAF: Petiole 3 in. long, slender, smooth, glabrous, curved lignous light green, carmine striped, base enlarged drops with blade; blade 6 in. long, 6 in. broad; thin flexible parchment-like obicular, broadly cordate, folded irregularly, depressed at end of lobes, 5 pointed, 5 cleft, 3 to 5 lobed; petiola sinus medium depth and width; terminal lobe acute; margin serrulate, midrib $4\frac{1}{2}$ in. long, prominent heavy curved, light yellowish. Upper surface smooth, convex even between veins, dull light green, lower surface smooth, glabrous, lighter green, scant white floccose pubescence .
FLOWERS: Abundant, open medium early, stamens upright.
CLUSTER: Peduncle $3\frac{3}{4}$ in. long, slender, wiry, yellow, comb single. $3\frac{3}{4} \times 3$ in. 50 berries; compact, regularly cylindrical, regular abrupt taper; pedicel length 4 m.m. slender, warty, reddish distal end, medium constricted; brush short, bundles few loose, greenish.
BERRY: $1\frac{1}{2}$ to $5\frac{5}{8}$ in. globose, adhering. Basal markings irregular russet pentagon; apex markings small indistinct scar. Skin medium tough, thin pulpy, smooth, translucent, light, glossy red, uniform at base; flesh pearly, parting freely, meaty , soft, juicy; quality excellent, flavor sweet, vinous, sprightly. Season medium late.
SEEDS: 1-3. Length 6 m.m. breadth 4 m.m. pear-shaped, parts readily from pulp; beak defined, short narrow, chalaza a small depressed oval, very rudimentary. raphe depressed, very rudimentary.
GROWN AT VARIETAL COLLECTION VINEYARD, ARLINGTON FARM, VIRGINIA.
PRUNED TO CANES, TRAINED ON MODIFIED MUNSON SYSTEM.

R. 44 V. 9.10

Described by

I. W. Dix, 1928.

ROGERS # 5
(Lab. Vin.)

- ORIGINATED BY: E. S. Rogers, Salem, Mass. 1851 - 56
PARENTAGE: Carter X Black Hamburg.
VINE: Vigorous, upright, straggling, climbing, open, trunk strong, slender, a poor producer here.
YOUNG WOOD: Canes stout, round, somewhat flattened, hard, bark thick rough dark brown, lighter stripes, spotted internodes long, medium thin, nodes normal, pith large discontinuous at very thick concave diaphragm, many small brown lenticels; tendrils intermittent forked; buds large prominent, rounded pointed, open early.
LEAF: Petiole 4 in. long, medium size, stout at lower end, glabrous, lying flat, dark vinous red, striped, dark brown spots, blade length $5\frac{1}{2}$ in. breadth 5 in. thick flexible coriaceous orbicular, 5 pointed, slightly 3 to 5 lobed petiolar sinus medium deep, narrow to overlapped; margin serrate, midrib 4 inches long, depressed light, even straight, light yellowish green, abundant, loose, rusty, pubescence patchy. Upper surface finely rugose, even between veins, dull dark green; lower surface rugose light yellowish, abundant rusty floccose pubescence.
FLOWERS: Abundant, open early, stamens reflex.
CLUSTER: Peduncle 2 in. long, slender wiry light red, comb single 5 x 1 in. 20 berries, form loose irregularly cylindrical, abrupt irregular taper, no shoulder; pedicel $\frac{3}{4}$ in. long. medium stout warty, yellow green, distal end large without constriction; brush short, bundles many, loose, greenish adhere to pedicel/
BERRY: $\frac{3}{4}$ x $\frac{3}{4}$ in. abovoid to globose, adherence good, parts from pedicel freely; basal markings small regular red ring. Apex markings indistinct, small depressed blotch. Skin medium tough and thick, pulpy, smooth dull dark red, thin blue bloom, flesh light greenish, parts freely, very soft juicy; juice clear, quality very good, sweet, slightly foxy, pleasing, pronounced foxy aroma, ripens midseason.
SEEDS: 1-4 , length $\frac{5}{16}$ breadth $\frac{3}{16}$ pear-shaped, distended, stout; beak defined short-stout, chalaza, large depressed oval, rudimentary, raphe rudimentary depressed.

Grown at Varietal Collection Vineyard, Arlington Farm, Virginia. Pruned to canes, trained on modified Munson System. R.11 V. 3.4.

Described by
I.W. Dix.

ROGERS #13

(Lab. Vin.)

- ORIGINATED BY: E. S. Rogers, Salem, Mass. 1851-1856.
- PARENTAGE: Mammoth Globe X White Chasselas.
- VINE: Vigorous upright, bushy, straggling, dense, very good producer, roots soft, fleshy, thick, long, moderately penetrating, stump strong; trunk strong slender.
- YOUNG WOOD: Canes slender, round, hard, bark thin, smooth, light brown striped, nodes darker, pubescence short supple; internodes long, thin, nodes enlarged; pith medium, discontinuous at medium concave diaphragm; lenticels small round, tendrils forked intermittent, color similar to cane, buds small prominent rounded, start midseason, growing tip green hairy.
- LEAF: Petiole length $3\frac{1}{2}$ inches, slender smooth, hairy, flat, vinous red, striped, base enlarged drops with blade, blade length $5\frac{1}{2}$ inches, breadth $5-1\frac{1}{4}$ thin folded evenly depressed along midrib, 3 pointed, slightly 3 lobed; petiolar sinus deep narrow overlapped; terminal lobe rounded, margin serrate; midrib 4 inches long, depressed curved transparent light, light greenish, pubescence rusty, abundant loose fluffy in tufts at forks; primary veins similar to midrib, upper surface smooth even between veins, dull dark green; lower surface rugose, lighter, abundant white floccose pubescence.
- FLOWERS: Abundant, medium size, perfect, open midseason.
- CLUSTERS: Peduncle length 2 inches, slender, wiry, light brown, comb $2 \times 4\frac{1}{2}$ in. weight $1\frac{1}{4}$ lb. 25 berries, single, medium in compactness, nearly cylindrical, taper gradual, no shoulder, pedicel length $1\frac{1}{4}$ in. stout, warty, green, distal end large without constriction; brush long; bundles many compact reddish, adhere to pedicel.
- BERRY: $1\frac{1}{2} \times 1\frac{1}{2}$ globose, adherence very good, basal markings medium, regular russet ring; apex markings medium size blotch, skin tough, thick smooth, translucent, dull dark red, uniform at base, many brown dots; not prominent; flesh pearly, pulpy, parting freely, firm meaty, juice white; very good quality, foxy flavor, indistinct aroma; very good keeping midseason table grape.
- SEEDS: 4. Length 8 m.m. breadth 4 m.m. elongated, stout, parts readily from pulp, beak defined, short, stout, blunt, chalaza depressed, large oval, raphe depressed merging into chalaza.

Grown at Chico Varietal Vineyard, Chico, California.
Pruned to canes and spurs, trained to stakes.

ROGERS #32

(Lab. Vin.)

- ORIGINATOR: E. S. ROGERS, Salem, Mass. 1851-56.
- PARENTAGE: Mammoth Globe X Black Hamburg.
- VINE: Vigorous bushy robust dense, productiveness very good, root soft, fleshy, strong, long, moderately penetrating, stump strong; trunk strong slender.
- YOUNG WOOD: Canes stout, round, hard; bark thin, smooth, dark red, striped, nodes darker, pubescence short supple, internodes short thick, nodes enlarged; pith medium, discontinuous at medium, concave diaphragm, lenticels small, tendrils intermittent, forked, color similar to cane; buds prominent, small pointed, start midseason, growing tip reddish hairy.
- LEAF: Petiole length 3 in. slender, hairy, flat, dark red striped, base enlarged drops with blade, blade length $5\frac{1}{2}$ in. breadth 4 in. thick parchment like broadly cordate depressed along midrib, folded evenly, 3 pointed, 3 cleft, 3 lobed, petiolar sinus deep narrow overlapped, terminal lobe acuminate, margin dentate, midrib 4 in. long, depressed, light, straight, transparent, red, pubescence white, scant, loose, fluffy in tufts of forks. Primary veins similar to midrib; upper surface rugose, coarsely wrinkled between veins, dull light green, scant white pubescence, lower surface lighter, rugose, pubescence scant, white, floccose.
- FLOWERS: Abundant large size perfect, open medium.
- CLUSTER: Peduncle length $1\frac{1}{2}$ in. slender wiry, dark red, comb single compact, $3\frac{1}{2} \times 5-3\frac{3}{4}$ in. Wt. $\frac{1}{4}$ lb., 60 berries, cylindrical gradual taper, slight single shoulder, pedicel length $\frac{1}{4}$ in., stout warty, green, distal end large without constriction, brush short, bundles few, greenish, compact, adhere to pedicel,
- BERRY: $\frac{3}{4} \times \frac{5}{8}$ in. globose, adherence very good. Basal marking large, regular russet ring, apex markings medium protruding dot, skin tough, thick, smooth, translucent dull dark red, uniform at base, many not prominent russet dots; flesh greenish parting freely, juicy, soft, juice white, excellent quality, foxy flavor, indistinct aroma, very good keeping midseason table grape.
- SEEDS: 4, length 8 m.m. breadth 4 m.m. pear-shaped, part readily from pulp, beak defined short stout, blunt, chalaza prominent large oval, raphe depressed, merging into chalaza.

Grown at Chico Varietal Vineyard, Chico, California.

Pruned to canes and spurs, trained to stakes.

B. 1 R 12, V. 41-42

Described by

F. L. Husmann & E. Snyder. 1916.

I.W.D.

COCCUS

(Lat. Vin.)

- ORIGINATED BY: T. S. Rogers, Salem, Mass. 1851-56.
PARENTAGE: Carter x Black Hamburg,
VINE: Vivacious, upright, slender, climbing over
trunk strong, slender, fair in productiveness.
YOUNG WOOD: Canes medium stout, round, hard; bark thick
smooth, dark brown, striated, nodes darker,
internodes medium short, thin; nodes normal;
pith medium, discontinuous at medium thick,
plain in diaphragm; buds medium size prominent,
rounded, pointed, start medium early.
LEAF: Petiole 2 inches long; medium size, rough,
hairy, lignous; dark purple, mottled green,
base enlarged, drops with blade; blade 6
inches long, 5 in. broad; thick, flexible
coriaceous; form ovate to orbicular, folded
irregularly, depressed along midrib, 5 pointed,
5 lobed; petiole sinus deep, narrow to closed;
terminal lobe acuminate; margin unevenly serrate,
midrib 5 in. long, prominent, even, curved heavy,
light yellowish green, scant white pubescence,
minutely hirsute. Upper surface rugose, coarsely
wrinkled, convex, uneven between veins, dark leaden
green; lower surface light yellowish. rugose,
abundant rusty pubescence.
FLOWERS: Abundant, open medium late, stamens upright.
CLUSTER: Peduncle length 1 in. slender woody, light yellow
green; Coat single 4 x 1 1/2 in. 24 berries; form
medium to loose, irregularly cylindrical, irregular
abrupt taper, slight single shoulder; pedicel
length 5 mm. stout partly yellow green; distal end
large constricted; bush short, bunches few, loose
yellowish, adhere to pedicel.
BERRY: 3/4 to 7/8 in. oblong to globose, adherence very
good, part from pedicel splitting part of skin;
basal marks regular russet pentagon with rays;
apex markings small indistinct protruding dot. Skin
medium thick, tough, smooth, transparent, glossy
light red, bronze at apex, thin little bloom; flesh
pearly, juicy, parts freely tough soft juicy;
quality very good, sweet slightly acid at base;
ripens late.
SEEDS 3-4; length 7 mm. breadth 5 mm. elongated 2 x 1 mm. red, red-
stained, stout, finely embossed, hard deciduous, thick
blunt, strong; chalazal large prominent oval, red
thread-like cord running into chalazal, slightly
depressed over apex.

Grown at Varied Collection Vineyard, Burlington Farm, Virginia. Trained
to Concord, trained on modified Wilson System.

ROGERS #33
(Lab. Vin.)

- ORIGINATED BY: E. C. Rogers, Salem, Mass. 1851-56
- PARENTAGE: Carter X Black Hamburg
- VINE: Very vigorous, upright, robust, climbing, dense, trunk strong and stout.
- YOUNG WOOD: Canes medium stout, round slightly flattened hard; bark very thick, rough, finely corrugated, light brown dark stripes, spotted, nodes darker, internodes medium long, thick; nodes normal; pith medium large discontinuous at thick plain diaphragm; tendrils discontinuous intermittent forked; buds medium size, flattened, pointed, start medium early.
- LEAF: Petiole $4\frac{1}{4}$ in. long, medium stout, smooth, hairy curved, light yellowish green, blade length 5 in. breadth $4\frac{1}{2}$ in. thick flexible coriaceous, orbicular, folded irregularly 3 pointed, entire to slightly 3 lobed; petiola sinus, medium deep, narrow to closed; terminal lobe acute; margin serrate; midrib 3 in. long, prominent, even straight, heavy, light yellowish green, abundant rusty, fluffy, pubescence; Upper surface finely wrinkled, convex uneven between veins, dark dull green; Lower surface rugose, light yellowish, abundant rusty floccose pubescence.
- FLOWERS: Open midseason, abundant, stamens reflex.
- CLUSTER: Peduncle $1\frac{1}{4}$ in. long, medium stout, woody, dark green, comb single, $2\frac{1}{2} \times 1\frac{1}{2}$ in. 17 berries; compact, nearly globular, irregular gradual taper; slight single shoulder; pedicel length 10 m.m. stout, warty green, distal end large; brush very short, bundles greenish few loose, adhere to pedicel.
- BERRY: $7/8 \times 7/8$ globose to oblate adherence good, parts from pedicel splitting part of skin; basal markings large regular russet and green ring; apex markings distinct large depressed blotch. Skin medium tough, medium thick, pulpy, smooth, translucent, uniform, purple black many white dots, not prominent; flesh light greenish, pulpy, parting freely from skin; soft juicy, quality good sweet, foxy, somewhat acid pulp, astringent, ripens midseason.
- SEEDS: 2-4, length 8 m.m. breadth 5 m.m. elongated subspherical, distended, stout, firmly embedded in pulp; beak medium, strong, thick, narrow at tip, chalaza prominent large wide oval, raphe a protuberant thread-like chord, merging into chalaza.

Grown at Varietal Collection Vineyard, Arlington Farm, Virginia. Pruned to canes, trained to modified Munson System.

Described by

RONALDO

(Linc. Lab.Vin.)

- ORIGINATED BY : T. V. Munson, Denison, Texas.
PARENTAGE: Armlong X Malaga.
VINE: Very vigorous, upright, robust, climbing, dense, trunk very strong, stout, very productive.
YOUNG WOOD: Canes medium size, round, slightly flattened on strongest canes, medium hard; bark thick rough, dark red brown, striped, spotted, internodes medium short; nodes normal, pith large discontinuous at thin plain diaphragm, tendrils intermittent forked; bud large prominent rounded, pointed, start midseason.
LEAF: Petiole 5 in. long, medium slender, minutely hirsute, curved lignous, light yellowish, vinous red flush, base enlarged drops with blade, blade length 6 in. breadth 7 in. oblate thin flexible, parchment like, folded evenly conically, 5 pointed, 5 lobed, 5 parted; petiola sinus deep, medium narrow; terminal lobe acute; margin serrulate; midrib $4\frac{1}{2}$ in. long, prominent depressed, slightly curved at apex, light, transparent, light greenish, pubescence scant white minutely hirsute; Upper surface finely rugose, depressed, uneven between veins, dark glossy green; lower surface lighter, rugose, scant white floccose pubescence.
FLOWERS: Abundant, open late, stamens upright.
CLUSTER: Peduncle 1 in. long, stout, woody, dark red; comb 7 x $2\frac{1}{2}$ in. 75 berries, single compact; nearly regularly cylindrical, gradual regular taper, prominent single shoulder; pedicel length 7 m.m. medium slender, warty, yellow green; distal end 3 m.m. medium size constricted, short brush; bundles few yellowish, compact, adhere to pedicel.
BERRY: $\frac{5}{8}$ x $\frac{5}{8}$ globose, adhering, parts from pedicel splitting part of skin; basal marking large irregular russet rings. rays: apex markings large distinct blotch. Skin thin, medium tender, pulpy; transparent, dull light green, amber when ripe, many prominent brown dots, flesh light greenish, pulpy, parts freely, soft juicy, quality fair, sweet, sprightly acid, port oak flavor. Pronounced astringency, ripens medium late.
SEEDS: 3. length 9 m.m. breadth 5 m.m. elongated pear-shaped, parts readily from pulp; beak long stout, thick at union narrow at tip, chalaza prominent large wide oval, raphe very rudimentary.

Grown at Varietal Collection Vineyard, Arlington Farm, Virginia. Pruned to canes, trained on Modified Munson System.

R. 41, V. 5.6.

Described by

I. W. Dix, 1928.

RUBY
(Lab. Vin. Rip.)

- ORIGINATED BY: T.V. Munson, Denison, Texas, 1890
PARENTAGE: Elvira X Brighton
VINE: Upright, robust, bushy, dense, very vigorous trunk strong and stout.
YOUNG WOOD: Canes medium size, somewhat flattened, medium hard, bark thick, smooth with short supple pubescence, light red brown, striped and spotted; internodes thick, medium short, nodes normal; pith medium, discontinuous at thin concave diaphragm, tendrils intermittent forked, strong, color similar to cane; buds medium size, prominent flattened, pointed, start midseason; growing tip light green, reddish tint, white tomentum.
LEAF: Petiole 3 in. long, medium size, smooth, tomentose green, reddish tint, base enlarged drops with blade; blade length $6\frac{1}{2}$ inches; breadth 6 inches, cordate, thin, flexible, parchment-like folded evenly, 3 pointed, 3 cleft, 3 lobed, petiolar sinus medium deep, narrow to closed; terminal lobe acute; margin serrulate, midrib $4\frac{1}{2}$ inches long, prominent, even curved at tip, light yellowish, flushed vinous red, abundant, loose, white, fluffy pubescence; Upper surface smooth, even between veins, dull green with metallic sheen, lower surface whitish, rugose, abundant white floccose pubescence.
FLOWERS: Abundant, mid season, stamens upright,
CLUSTER: Peduncle length $1\frac{1}{4}$; slender, wiry, dark yellow green. Comb single, nearly cylindrical, abrupt irregular taper, prominent single shoulder, pedicel $1/4$ inch, length, green slender, warty, distal end medium size, constricted, brush short bundles many compact, greenish, adhere to pedicel;
BERRY: $5/8 \times 5/8$ globose. adherence good, parts from pedicel splitting part of skin. basal markings small irregular russet ring; apex markings small indistinct protruding dot. Skin medium tough and thin, smooth, ~~bulpy~~ *dark purplish Red.* translucent, flesh greenish, soft juicy, quality very good sweet musky vinous, pronounced musky aroma.
SEEDS: 1-3; $1/4 \times 3/32$ in. size, pear-shaped, variable in size, firmly embedded, beak short, blunt narrow, defined, chalaza small oval, slightly prominent, raphe protuberant, a thread-like cord ending abruptly at apex.

Grown at Varietal Collection Vineyard, Arlington, Va.
Pruned to canes, trained on Modified Munson System.

ST. JOHN

(Lab. Vin. Bourq.)

- ORIGINATED BY: H. B. Spencer, Rocky River, Ohio, 1890
PARENTAGE: Brighton X. Delaware.
VINE: Not vigorous, upright, slender, climbing open, trunk strong slender; crop usually light.
YOUNG WOOD: Canes slender, round, medium hard, bark thin smooth, light brown striped; internodes short, thin; nodes normal flattened; pith small, discontinuous at medium size concave diaphragm; tendrils intermittent forked; buds large prominent flattened start midseason; growing tip light yellowish green glabrous.
LEAF: Petiole $2\frac{1}{2}$ inches long, medium slender smooth glabrous dark yellowish, vinous red striped; blade length $4\frac{1}{2}$ in., breadth $4\frac{1}{2}$ inches, broadly cordate, 3 pointed, 3 lobed, thin flexible, petiolar sinus medium deep, narrow, closed to overlapping, terminal lobe acute to obtuse. Margin crenate, midrib $3\frac{1}{2}$ in. long, straight light pearly, scant, loose russet pubescence. Upper surface finely rugose, convex, light green, scant white pubescence; lower surface rugose, yellowish, abundant rusty pubescence.
FLOWERS: Abundant, open late, stamens reflex.
CLUSTER: Pedicel $3\frac{1}{4}$ in. long, slender, wiry, dark yellow brown. Comp single 4 x 1 in.
BERRIES: ~~18-2 to 6/8 in. 30-3/8 in. seedless~~, medium compact, irregularly cylindrical, irregular taper. Pedicel length 5 m.m. stout, warty, reddish, distal end constricted, large; brush short, bundles reddish, many adhere to pedicel.
BERRY: Medium to very small, globose, adherent, parts from pedicel splitting part of skin; basal markings small regular russet ring, apex markings small indistinct protruding dot. Skin tough, medium thick pulpy smooth translucent, uniform light glossy red; flesh pearly pulpy; parts freely from skin, soft juicy; quality very good sweet sprightly vinous, ripens medium late. Seeds, 0-2, length 7 m.m. breadth 4 m.m. subspherical, distended stout, part readily from pulp; beak defined short stout blunt, chalaza slightly prominent large oval; raphe scarcely protuberant, ending abruptly.

Grown at Varietal Collection Vineyard, Arlington Farm, Va.
Pruned to canes, trained on Modified Munson System.

R. 23, V. 9,10

Crop light

Described by

I. W. Dix, 1928.

SHAUMAN

- ORIGINATED BY: J. Wittel, Peru, Indiana.
PA RENTAGE: Unknown
VINE: Fairly vigorous, upright, straggling, slender, open, trunk strong slender, light yield.
YOUNG WOOD: Canes slender round, flattened, medium hard, bark very thick smooth, dark red brown striped, spotted, internodes medium short, nodes slightly flattened, pith small discontinuous at thick concave diaphragm, tendrils continuous, forked, buds medium size, prominent rounded.
LEAF: Petiole 3-3/4 in. long, medium stout, rough, hairy, curved, lignous dark yellowish green; blade 7 inches long, 7 inches wide, thin flexible coreaceous, oblate or broadly cordate, depressed along the midrib, 3 pointed, entire to slightly 3 lobed; petiolar sinus deep medium narrow, terminal lobe acute, margin dentate, midrib 5 inches long, depressed, light, even, straight, light yellowish, scant loose rusty pubescence. Upper surface rugose coarsely wrinkled, convex, uneven between veins, dull dark green, scant white pubescence, lower surface rugose, yellowish, abundant rusty white floccose pubescence.
FLOWERS: Few, open midseason, stamens upright.
CLUSTER: Peduncle 1/2 in. long, medium slender, woody, light yellow green; comb single, 3 x 1 inch.; 20 berries, medium compact to loose, irregularly cylindrical, abrupt irregular taper, slight single shoulder; pedicel length 3 m.m. medium slender, warty, reddish; distal end medium size constricted; brush short, bundles few compact greenish, adhere to pedicel.
BERRY: Berry 5/8 x 5/8 in. globose, adherence medium, parts from pedicel splitting part of skin; basal markings small irregular russet ring, apex markings small indistinct protruding dot. Skin medium tough thick, smooth, pulpy, translucent, uniform dull light red lilac bloom; few not prominent white dots; flesh pearly pulpy, juicy, soft; very good quality, sweet, sprightly acid at seeds, ripens medium late.
SEEDS: 1-2, length 7 m.m. width 5 m.m. distended, subspherical, firmly embedded, beak defined short blunt, chalaza prominent long oval; raphe rudimentary, scarcely apparent.

Grown at Varietal Collection Vineyard, Arlington Farm, Virginia. Pruned to canes, trained to modified Munson System.

Described by

I. W. Dix,

STUDLEY #2

(Lab. Vin.)

ORIGINATED BY:

PARENTAGE:

VINE: Very vigorous, climbing, upright, dense, trunk strong, stout, produces heavy crop.

YOUNG WOOD: Canes medium size, round, hard, bark very thick finely corrugated rough; long supple pubescence, dark red brown, striped, spotted, nodes darker, internodes long, thick, nodes enlarged, flattened, pith large, discontinuous at thick concave diaphragm; tendrils intermittent, forked, trifid; buds large prominent rounded, pointed, start early.

LEAF: Petiole length 4 in. stout, rough, hairy, curved lignous; dark yellow, carmine striped; blade length 8 inches, breadth 6 inches, thick, coriaceous, cordate, folded evenly, 5 pointed, 3 lobed; petiolar sinus deep, medium broad; terminal lobe acuminate; margin dentate, midrib 6 in. long, prominent even straight transparent, light yellowish green, abundant russet fluffy pubescence. Upper surface rugose, coarsely wrinkled, uneven between veins, dark green; lower surface rugose, yellowish, pubescence abundant floccose, russet.

FLOWERS: Abundant, open early, stamens upright.

CLUSTER: Peduncle length 1 in. stout, woody, dark yellowish comb single, $5\frac{1}{2}$ x 2 in., 55 berries, compact, regularly conical, regular gradual taper, slight single shoulder, pedicel length $\frac{1}{4}$ in. medium stout warty, green; distal end large, without constriction; brush long, bundles few compact greenish.

BERRY: $\frac{3}{4}$ x $\frac{5}{8}$, obovoid to globose, adhere well, parts from pedicel splitting part of skin, uniform light green color, few prominent russet dots or blotches, flesh pulpy, juicy, soft, excellent quality, sweet, slightly foxy, pleasing acid, ripens medium early, very similar to Niagara but rather better.

SEEDS: 2-3, length $\frac{1}{4}$, breadth $\frac{3}{32}$, pear shaped, parts readily from pulp; beak short, narrow; chalaza very rudimentary small oval; raphe scarcely protuberant, a thread-like cord ending abruptly.

Grown at Varietal Collection Vineyard, Arlington Farm, Va. Pruned to canes, trained to Modified Munson System.

R-32 V 9,10

Described by

I.W.Dix, 1928.

SUELTER

(Rip. Lab.)

- ORIGINATED BY: L Suelter, Carver, Minnesota, 1893.
- PARENTAGE: Riparia X Concord
- VINE: Of fair vigor, upright, straggling, open, trunk strong slender.
- YOUNG WOOD: Canes slender, flattened, medium hard, bark thin smooth, short stiff pubescence, light red brown striped, spotted, internodes long thin; nodes normal flattened, pith large discontinuous at thin concave diaphragm. Many brown lenticels, tendrils discontinuous forked; buds medium size prominent, flattened, pointed, start early, growing tip light yellowish green, reddish stripes, tomentose.
- LEAF: Petiole 3-3/4 in. long, medium stout, ribbed, hairy, curved lignous, vinous red, with green stripes, base not enlarged; blade 7 in. long, 7 in. broad, oblate, flexible, parchment- like, 3 pointed, 3 lobed; petiolar sinus shallow, broad; terminal lobe acuminate; margin dentate, midrib 5 1/2 inches long, prominent depressed, even, heavy, straight, pearly carmine blotches near base, scant loose white pubescence, felty at forks. Upper surface finely rugose, wrinkled between veins, dull dark green with metallic sheen, lower surface smooth glabrous yellow green with metallic sheen.
- FLOWERS: Abundant, open early, stamens reflex.
- CLUSTER: Peduncle 3/4 in. slender wiry green and brown; comb single, 4 x 1 1/4 in.; 40 berries, medium compact, irregularly cylindrical irregular abrupt taper, slight single shoulder, pedicel 1/4 in. long, medium slender warty green, distal end large without constriction, brush short, bundles many compact adhere to pedicel, reddish.
- BERRY: Berry 1/4 x 1/4 in. globose, adhering, parts from pedicel splitting part of skin, large irregular red ring, apex markings small distinct protruding dot. Skin medium tender thin, pulpy, uniform glossy dark purple black; flesh red, tenaceous pulpy, juicy soft, juice pink; fair quality, sweet at skin, acid pulp, ripens early.
- SEEDS: 2-3. length 1/4, breadth 3/16, pear shaped, firmly embedded, beak defined short narrow, chalaza apparent small oval, raphe a thread-like cord, protuberant from beak to apex.

Grown at Varietal Collection Vineyard, Arlington Farm, Va.

Pruned to canes, trained to Modified Munson System.

R. 30 V. 7,8.

Described by

I. W. Dix.

HOPE
(Lab. Vin. 50 r1.)

ORIGINATED BY:

T. V. Munson, Denison, Texas, 1939.

ORIGIN:

Delago x Brilliant.

VINE:

Very vigorous, upright robust, climbing, dense, trunk stout, strong; productivity good.

YOUNG WOOD:

Canes stout, round to flattened, medium hard; bark thick, dark red brown, striped, spotted, nodes darker, pubescence short supple, internodes thick, medium long, nodes normal, pith medium, discontinuous at medium, thin concave diaphragm; many small lenticels, tendrils intermittent, forked, buds medium size, prominent, round, pointed; start early.

LEAF:

PETIOLE

5 in. long. medium stout smooth, curved, lignous light yellowish, coriaceous striped; blade length 3 in. breadth $6\frac{1}{2}$ in. Medium thick flexible coriaceous; from base to narrowly cordate; folded irregularly, undulating, depressed along midrib, nearly entire, 5 pointed, petiolar sinus deep, medium broad, terminal lobe acuminate; margin dentate; midrib 3 in. long, depressed, even, straight, heavy light yellowish; pubescence scant, loose, patchy, rusty felt down. Upper surface rugose, coarsely wrinkled, convex, uneven between veins, glossy light green, metallic sheen; lower surface rugose, abundant, rusty floccose pubescence. Flowers abundant, open early, stamens upright.

CLUSTER:

Peduncle 1 in. long, medium stout, woody, light yellow green, Comb single 4 x $1\frac{1}{2}$ in.; 40 berries, medium compact, nearly regularly cylindrical, regular abrupt taper; slight single shoulder; pedicel length 5 m.m. medium stout, warty, green, distal end constricted, medium size brush short; bundles few compact, yellowish, reddish ties adhere to pedicel.

STALK:

$\frac{5}{4} \times \frac{5}{16}$ oblong to oblate, adheres well, parts from the pedicel splitting part of skin; basal markings small regular russet ring. apex markings distinct small protruding blotch. Skin medium tender, thin, pulpy smooth, transparent, dull red, lighter at base; flesh light greenish, meaty soft juicy, parts freely from skin. Juice clear; quality very good, sweet slightly acid at seeds. Ripens medium early.

SEEDS:

2 - 4 length 3 m.m. breadth 6 m.m. subspherical oblate, stout, parts readily from pulp; beak defined short blunt, thick; chalaz. prominent large wide oval; raphe very rudimentary.

Grown at Variedal Collection Vineyard, Arlington Farm, Va.
Pruned to canes, trained on Modified Munson System.

R. 39 V 1.2.

Described by

I. W. DIA, 1932.

WILDING
(Rip X Lab.)

A seedling found by J. Rommell, Monson, Missouri.

VINE: Very vigorous, bushy, robust, climbing, dense, trunk strong, medium stout; productiveness uncertain, poor.

YOUNG WOOD: Canes medium stout, round, sometimes angled, medium hard; bark thick smooth, dark red brown, short supple pubescence, internodes thick medium length; pith large discontinuous at thin concave diaphragm; tendrils intermittent forked; buds medium, prominent, flattened pointed, start late, growing tip light yellowish green.

LEAF: Petiole length $4\frac{1}{2}$ inches; stout rough glabrous, lying flat lignous, dark green, purple violet striped; blade 7 inches long, 7 inches broad, thick, flexible, coriaceous, 5 pointed 3 to 5 lobed; terminal lobe acuminate, petiolar sinus medium in depth and width, margin irregularly dentate, midrib 5 inches long prominent, even straight, heavy, pearly, scant rusty white pubescence. Upper surface rugose, finely wrinkled, depressed, uneven between veins, light green, darker near veins, scant white pubescence; lower surface light yellowish green. Abundant rusty white floccose pubescence.

FLOWERS: Abundant, open midseason, stamens reflex.

CLUSTER: Peduncle $1\frac{1}{2}$ inches long, slender, wiry, light yellow green. Comb single 2 x 1 inch; 16 berries; medium loose, irregularly conical, abrupt irregular taper, no shoulder, pedicel length $1/4$ inch, medium stout, warty, green, distal end medium size, slightly constricted, brush short, bundles many, compact, greenish, brown tip, adhere to pedicel.

BERRY: $3/4$ x $3/4$ globose, adhering, parts from pedicel splitting part of skin; basal markings small irregular russet ring, apex markings indistinct, small protruding scar. Skin thin tender smooth, pulpy transparent very light green; flesh light greenish, juicy, pulpy, soft, parts freely from skin, juice white, quality poor, sweet, ripens with concord.

SEEDS: 3. length $3/16$ breadth $1/8$, elongated, pear-shaped, stout, part readily from pulp; beak defined, short, blunt, narrow, chalaza small depressed oval; raphe a depressed thread-like cord.

Grown at Varietal Collection Vineyard, Arlington Farm, Va. Pruned to canes, trained to Modified Munson System.

WADDLE
(Lab.)

- FOUND IN : Highland County, Ohio, 1883 by J. L. Waddle.
- VINE: Very vigorous, upright, robust, climbing device, trunk strong, a bit. Productiveness poor.
- YOUNG WOOD: Canes stout flattened, hard, bark very thick, rough, short small pubescence; dark yellow, brown stripes, spotted nodes darker; internodes thick, medium length, nodes normal, olive medium, discontinuous at medium, concave diaphragm; tendrils intermittent forked; buds medium large prominent flattened, pointed, start early; growing tips light yellowish green, tomentose.
- LEAF: Petiole $5\frac{1}{2}$ inches long; medium, stout, rough somewhat hairy, curved lignous, light yellowish, sinuous red striped or flushed; blade length 7 in. breadth 7 in. medium thick, flexible, orbicular, folded irregularly, undulating depressed along midrib, 5 pointed, slightly 5 lobed, petiole or sinuous medium depth and breadth; terminal lobe acute, margin dentate, midrib 5 in. long, heavy straight, even leaved, very abundant pubescence, loose rusty, felt down at foris, Upper surface coarsely rugose, depressed, uneven between veins, dark leaden green; lower surface rugose, lighter pubescence abundant, rusty floccose.
- FLOWERS: Open early, stations upright.
- CLUSTER: Peduncle $\frac{3}{4}$ in. long, medium size woody, yellowish green, cluster medium compact 3 x 1 in. 53 berries. irregularly conical, irregular gradual taper; slight single shoulder; pedicel length 4 m.m. medium size, warty, green; distal end medium size, constricted, brush medium; bundles few, loose adhere to pedicel.
- BERRY: $\frac{3}{4} \times \frac{5}{8}$ inches, slightly oblong, adhering, parts from pedicel splitting part of skin; basal markings irregular russet pentagon, wax markings, large protruding dot, distinct. Skin medium tough, thick pulpy smooth, uniform dull dark purple black, light blue bloom, flesh pearly, pulpy, parts readily from skin, meaty, soft, juicy, juice clear, quality good, sweet, slightly, slightly foxy. Fruit late does not ripen evenly.
- SEEDS: 2-3, length 8 m.m. breadth 5 m.m. oblate distended, stout, part readily from pulp; bark medium, stout, blunt, strong, chalaza large oval, depressed; raphe rudimentary, a depressed thread like cord ending abruptly.

Grown at Varietal Collection Vineyard, Arlington, Virginia.
Pruned to canes, trained on modified Munson System.

WITTEL #2

ORIGINATED BY: J. Wittel, Peru, Indiana.

PARENTAGE: Unknown.

VINE: Vigorous, upright, slender, climbing, open, trunk strong, slender; productiveness very good.

YOUNG WOOD: Canes medium size flattened, medium hard, bark thick smooth, dark red brown striped, spotted nodes darker, internodes short, thick, nodes normal; pith small discontinuous at thick concave diaphragm; tendrils intermittent forked; buds medium to small prominent rounded, pointed, start medium early. Growing tip olive green, reddish stripes, rusty tomentum.

LEAF: 3 in. long, medium slender, lying flat, purple violet; blade $5\frac{1}{2}$ in. long; breadth $4\frac{1}{2}$ in. thin flexible, parchment like, 3 pointed, nearly entire to slightly 3 lobed; petiolar sinus shallow, medium narrow, terminal lobe acute; margin serrulate; midrib 4 in. long, even straight, light, transparent, scant loose rusty pubescence. Upper surface smooth, even between veins. dull dark green, scant white pubescence; lower surface light yellowish, variagated, abundant rusty floccose pubescence.

FLOWERS: Abundant, open early, stamens upright.

CLUSTERS: Peduncle 2 in. long, slender, wiry, light, yellow brown, comb single $4 \times 1\frac{1}{2}$ in. 50 berries, medium to loose, irregularly conical, irregular abrupt taper, prominent single shoulder; pedicel length 5 m.m. green medium slender warty, distal end medium size, constricted; brush short bundles few loose, yellowish, adhere to pedicel.

BERRY: Size variable, $5/8 \times 5/8$, globose, adhering, parts from pedicel splitting part of skin; basal markings regular russet ring; apex markings indistinct, small protruding dot. Skin medium thin tender, pulpy smooth translucent, uniform glossy, light red, light lilac bloom; flesh pearly, pulpy, tough, juicy; quality very good sweet, pleasing acid pulp; ripens medium late.

SEEDS: 2-3. length 8 m.m. breadth 4 m.m. oblate, firmly embedded, beak medium size, narrow tip; chalaza small depressed oval, rudimentary; raphe rudimentary, scarcely apparent, ending abruptly.

Grown at Varietal Collection Vineyard, Arlington Farm, Va.

Pruned to canes, trained to Modified Munson System.

R. 44, V. 5,6

Described by

I.W.Dix, 1928.

WITTEL NO. 4

- ORIGINATED BY: Jacob F. Wittel, Peru, Indiana.
- PARENTAGE: Unknown.
- VINE: Vigorous, upright, slender, climbing, open; trunk strong, canes stout, round or flattened, medium hard; bark thin, smooth, pubescence short supple dark grey brown, striped, spotted; internodes thick medium length; nodes normal flattened; pith medium discontinuous; concave at medium size diaphragm, tendrils continuous simple and forked; buds medium small prominent, rounded, pointed; start medium early, growing tip light green tomentose.
- LEAF: Petiole length 3 in. medium stout, smooth, rusty tomentum, lying flat, oil green, 3 purple stripes, base enlarged drops from blade; blade length 7 in. breadth 7 in., thin flexible coriaceous, 3 pointed, 3 lobed, petiolar sinus medium deep, narrow, terminal lobe acute margin serrate, midrib 5 in. long; prominent curved light oil green; pubescence scant loose, fluffy, felty down, rusty white, primary veins similar to midrib; Upper surface, smooth, coarsely wrinkled, convex uneven between veins, forest green. Pubescence scant, lower surface lighter green, rugose, pubescence abundant white floccose.
- CLUSTER: Peduncle length 1 in. medium slender, light yellowish green; comb $2\frac{1}{2} \times \frac{3}{4}$ in.; berries 25, single medium compact, abrupt irregular taper, single shoulder, irregularly cylindrical, pedicel length $1/16$ in. medium slender, smooth, yellow green, distal end medium size without constriction; brush short, bundles few, compact adhere to pedicel reddish.
- BERRY: $5/8 \times 5/8$ in. globose, adherence medium parts from pedicel freely when ripe, basal markings small irregular russet ring, apex marking $1/32$ small protruding scar. Skin tender, thin, rough, transparent, uniform light green, few small russet dots; flesh light greenish, tenaceous, pulpy, soft and juicy, sweet, slightly acid center. Fruit ripens midseason, table grape of good quality, poor keeper.
- SEEDS: 2-3, length $3/16$, breadth $1/16$ in. oblate, stout, firmly imbedded, beak short blunt, defined, dark brown; chalazae slightly prominent, small oval, raphe rudimentary.

Grown at Arlington Varietal Collection
Vineyard, Arlington Farm, Virginia. Pruned to canes,
trained on Modified Munson System.

Described by

I.W.Dix, 1927.

1
11/11/11

- ORIGINATED BY: J. F. Wittel, Peru, Indiana.
 PARENTAGE: Unknown.
 VINE: Vigorous, bushy, upright, climbing, trunk stout, strong yields well.
 YOUNG WOOD: Canes medium slender, round to flattened, medium hard, bark thick rough, short supple pubescence; dark brown striped; spotted; internodes medium size and length; nodes normal; pith nearly large discontinuous at thick concave diaphragm; many brown lenticels; tendrils discontinuous, forked; buds medium size prominent, flattened, pointed, start early; growing tip dark yellowish green rusty tomentose.
 LEAF: Petiole 3 in. long, medium, slender, rough, tomentose curved lignous, dark yellowish, carmine striped, blade length 6 in. breadth 6 in. thick, coreaceous, orbicular, broadly cordate, folded conically, irregularly, depressed along midrib. 3-5 pointed, 3 cleft, 3-5 lobed, petiolar sinus broad, deep, terminal lobe acute, margin entire serrate; midrib $4\frac{1}{2}$ in. long, light, even straight depressed, pubescence rusty, dense, felty down. Upper surface finely rugose, coarsely wrinkled, uneven between veins, dark glossy green; lower surface light yellowish, rugose abundant rusty floccose pubescence.
 FLOWERS: Abundant, open early, stamens upright.
 CLUSTER: Peduncle 1 in. long, medium slender wiry, light yellow. comb single; $4 \times 1\frac{1}{2}$ in. 50 berries, medium compact to loose; irregularly conical; gradual irregular taper, prominent single shoulder, pedicel 4 m.m. long medium slender warty green; distal end constricted medium size. brush short, bundles few loose, greenish, adhere to pedicel.
 BERRY: Medium to above globose, parts from pedicel splitting part of skin; basal markings large regular russet pentagon, apex markings small, distinct protruding dot. Skin thin, tough, pulpy, transparent, uniform dull light green, many prominent russet dots and blotches; flesh light greenish, meaty, juicy, soft, sweet, foxy, excellent quality, ripens midseason.
 SEEDS: 2-3, length 6 m.m. breadth 5 m.m. subspherical parts readily from pulp, beak defined, very short, blunt, narrow, chalaza prominent small oval; raphe rudimentary a thread like cord ending abruptly.

Grown at Varietal Collection Vineyard, Arlington Farm, Virginia. Pruned to canes, trained to Modified Munson System.

WITTEL #16

(Vin. Lab. Bourq.

ORIGINATED BY : Jacof F. Wittel, Peru, Indiana.

PARENTAGE: Seedling of Dutchess.

VINE: Vigorous, upright, bushy, climbing dense, trunk strong.

YOUNG WOOD: Canes stout, round to flattened, medium hard, bark thick, rough, no pubescence, color light brown striped, spotted; internodes thick, medium length; nodes normal, pith medium discontinuous at concave, medium thick diaphragm; tendrils discontinuous, forked, similar to cane in color; buds medium, prominent rounded pointed, start midseason, growing tip dark yellowish, tomentose; ^{2 3/4 in} petiole length slender, smooth, lying flat, light yellowish, purple violet striped; base enlarged drops separate from blade; blade length 5 in. breadth 5 in. thin flexible parchment like, broadly cordate, 3 pointed, 3 lobed; petiolar sinus, medium shallow, broad, terminal lobe acute; margin serrulate; midrib 4 in. long, even curved, color light greenish yellow, pubescence abundant, fluffy, felty down, russet. Upper surface smooth, with slight wrinkles, dull dark yellowish green pubescence scant; lower surface smooth, yellowish white abundant pubescence, white minutely hirsute.

FLOWERS: Perfect, blooms late.

CLUSTER: Peduncle 2 in. slender, wiry, light green, comb. $2\frac{1}{2}$ x 1 in. single, medium compact, nearly conical, gradual taper, slight single shoulder or none; pedicel length $1/8$ in. slender, smooth, green, distal end small, brush short, bundles few, compact, adhere to pedicel, yellowish green.

BERRY: $3/8$ to one-half in. globose, adherence poor parts from pedicel freely; basal marking green ring; apex marking small blotch. Skin medium thin, tender, smooth dull, dark red, lighter with green tint at base, light purple bloom; flesh pearly parting freely, texture soft juicy; very good quality, sweet lacks character, aroma indistinct, not as good as Delaware, or as good a keeper.

SEEDS: 1-3, length $1/4$ breadth $1/8$, oval, beak short blunt detached, chalaze, oval slightly raised. Raphe rudimentary.

Grown at Arlington Varietal Collection
Vineyard

Described by I.W.Dix, 1927.

WITTEL #42

(Lab. Vin.)

- PARENTAGE: Seedling of Herbert.
- ORIGINATED BY: Jacob F. Wittel, Peru, Indiana.
- VINE: Vigorous, upright, robust, climbing, open, trunk strong and stout.
- YOUNG WOOD: Canes medium slender, medium hard; bark thick, rough dark gray brown, heavy dark brown stripes, red spots, nodes darker; internodes thick, medium length, nodes enlarged, pith medium discontinuous, diaphragm concave, medium size; tendrils intermittent, forked; color similar to cane; buds medium prominent, rounded, pointed, start midseason, growing tip light yellowish green, young leaves rose tinted, pubescence reddish.
- LEAF: Petiole length $3\frac{1}{2}$ in. medium slender, rough, curved lignous light yellowish purple violet on upper surface, base enlarged drops separate from blade; blade length 6 in. breadth 5 in. thin flexible parchment like undulating 3 pointed, 3 cleft; petiolar sinus medium in depth and breadth, terminal lobe acuminate; margin serrate, midrib 5 in. long, even curved, pearly; pubescence loose rusty white, patchy, felty down; upper surface finely rugose wrinkled, convex, dull cress green, scant white pubescence; lower surface rugose lighter green, pubescence abundant russet, floccose.
- FLOWERS: Perfect, open midseason.
- CLUSTER: Peduncle length 2 in. stout, woody, dark yellow green; comb $3 \times 1\frac{1}{2}$ in. 45 berries, single very compact, nearly regularly conical, gradual taper, prominent single shoulder; pedicel medium, distal end medium constricted, brush short, bundles many loose, adhere to pedicel reddish.
- BERRY: $1/2$ to $3/4$ in. globose, adherence good, parts from pedicel splitting part of skin, basal markings small regular russet ring; apex markings small protruding blotch. Skin medium tough, thick, pulpy smooth, glossy, very dark purple black, uniform, few prominent russet dots and blotches, flesh light greenish, pulpy, very soft juicy. Quality very good, sweet, pleasing acid, slightly foxy, good table or juice grape.
- SEEDS: Length $1/4$ breadth $3/16$ stout, pear shaped, firmly imbedded; beak medium size, defined, blunt; chalaza large prominent oval; raphe a thread-like cord ending abruptly.

Grown at Arlington Varietal Collection Vineyard
Arlington Farm, Virginia, Pruned to canes, trained to
modified Munson System.

Described by I. W. Dix, 1926.

WITTEL # 61

(Lab. Vin.)

- ORIGINATED BY: Jacob F. Wittel, Peru, Ind.
- VINE: Vigorous, upright, robust, climbing dense, trunk very stout and strong.
- PARENTAGE: Seedling of Merrimac.
- YOUNG WOOD: Canes stout, slightly flattened, hard, bark thin, rough, pubescence short supple, color light red brown, striped, spotted; nodes darker, internodes short, thick; nodes normal, enlarged flattened, pith medium, discontinuous, concave at thick diaphragm, tendrils forked, discontinuous similar to cane; buds medium size, prominent, rounded start medium late; growing tip light green tomentose.
- LEAF: Petiole length $2\frac{1}{2}$ in. medium stout, smooth tomentose, light green, purple violet striped base enlarged drops separate from blade; blade length 6 in. breadth $6\frac{1}{2}$ in. thin flexible coreaceous; 3 pointed, slightly 3 lobed, petiolar sinus medium deep, broad, terminal lobe acute; margin serrulate, midrib 5 in. long, prominent, straight, medium heavy, light yellowish, pubescence abundant, white downy, primary veins similar to midrib; upper surface finely rugose, wrinkled, dull dark green, scant rusty pubescence. lower surface rugose, gray green; scant white pubescence.
- FLOWERS: Semi-perfect, bloom medium late.
- CLUSTERS: Peduncle length $1\frac{1}{2}$ in. stout, woody, dark yellow green; comb medium to large, single, compact, regularly cylindrical, abrupt regular taper, prominent single shoulder, pedicel length $1/4$ in, stout, warty yellow green, distal end large, constricted, brush long, bundles few, compact, adhere to pedicel, greenish.
- BERRY: Berry $3/4 \times 3/4$, globose, adherence good, part from pedicel splitting part of skin, basal marking large irregular russet ring, rays: apex marking small protruding blotch. Skin medium thick, medium tough, rough glossy, purple black; flesh light green juicy soft tough juice red; quality good, sweet foxy sprightly acid center, aroma indistinct. Use-Culinary purposes. Ripens midseason.
- SEEDS: 3 or 4, size $5/16 \times 3/16 \times 1/8$ stout, distended, finely imbedded, beak stout blunt, chalaza small prominent oval, raphe none to rudimentary.

Grown at Arlington Vairetal Collection Vineyard, Arlington Farm, Virginia. Pruned to canes, trained to Modified Munson System.

Described by I.W.Dix, 1926.

VALHALLAH

(Lab. Rip. Cand. Bourq. Vin.)

- ORIGINATED BY: T. V. Munson, Denison, Texas, 1893.
- PARENTAGE: Elvicand X Brilliant
- VINE: Of Excellent vigor, upright, robust, climbing, dense, trunk stout, strong, very productive.
- YOUNG WOOD: Canes medium size, round, slightly flattened, medium hard, bark thick, smooth, light brown, striped, nodes darker, internodes medium long, thick; nodes normal; pith medium small, discontinuous at thick concave diaphragm; tendrils discontinuous, intermittent, forked; buds large, prominent, flattened, pointed, start early, growing tips dark reddish, glabrous, white tomentum.
- LEAF: Petiole 4 in. long, stout smooth, hairy, lying flat, lignous, dark yellowish, green red striped; blade length $6\frac{1}{2}$ in. breadth $6\frac{1}{2}$ inches thick, flexible, coriaceous, orbicular entire to slightly 3 lobed; petiolar sinus deep, narrow, terminal lobe obtuse; margin serrulate, undulate or cerate; midrib 4 in. long, heavy, prominent, straight, heavy, pearly, pubescence loose, scant white patchy. Upper surface rugose, finely wrinkled, depressed, uneven between veins, dull dark yellowish green; lower surface rugose, lighter, abundant white floccose pubescence.
- FLOWERS: Abundant, open early, stamens upright.
- CLUSTER: Peduncle $1\frac{1}{2}$ in. long, slender, wiry light red and green.
Comb single, $3\frac{1}{2}$ x 1 in. 36 berries; compact, regularly conical, gradual regular taper, slight single shoulder; pedicel length 5 m.m. stout, warty, green; distal end large constricted; brush short, bundles many compact, greenish with red tip, adhere to pedicel.
- BERRY: $5/8$ x $5/8$ globose, adherent, parts from pedicel splitting part of skin, basal markings irregular red ring; apex markings indistinct small depressed blotch. Skin medium tough medium thin, smooth pulpy, glossy uniform very dark, red bronze, many white dots, not prominent, heavy blue bloom; flesh light greenish, pulpy parting freely, meaty, soft, juicy, juice pink, excellent quality, sweet sprightly vinous, ripens medium late.
- SEEDS: 2-3 length 8 m.m. breadth 5 m.m.; subspherical stout, distended, parts readily from pulp; beak, hardly defined, short, narrow; chalaza prominent large wide oval, raphe rudimentary, a thread-like cord, ending abruptly

Grown at Varietal Collection Vineyard, Arlington Farm, Va. Pruned to canes, trained to Modified Munson System.

